

CMC Metals
SILVER HART PROPERTY

PROJECT DESCRIPTION
YESAA Executive Committee Submission

APPENDIX A
EMERGENCY SPILL RESPONSE PLAN

November 2009



SPILL RESPONSE PLAN FOR PETROLEUM PRODUCTS (FUELS)

December 2006

Prepared By:



A Registered Tradename for Access Mining Consultants Ltd.
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Introduction

Fuel use/handling activities will be undertaken during the mobilization/demobilization of the TBM and the development of the decline. These activities involve the use of equipment that consume petroleum products, including refuelling and storage of other hydrocarbons.

This Spill Response Plan is a guide for the contractors and subcontractors as to the planned course of action in the event of a spill or leakage of petroleum products during the course of the operation. Safety procedures for personnel and for proper equipment usage during such operations are discussed within this plan.

This plan outlines procedures to be followed in the event of a petroleum product spill. A table of contact phone numbers is provided below in Table 1.

Table 1 Spill Related Resources and Emergency Contact Numbers

Resource	Contact Number
Yukon Spill Line	(867) 667-7244
Liard First Nation	(867) 536-2912
Fire Department – Whitehorse	(867) 390-2005
Ambulance – Watson Lake	(867) 536-4444
Fire Department – Watson Lake	(867) 536-2222
Police – Watson Lake	(867) 536-5555
Access Consulting Group (Environmental Consultant)	(867) 668-6463
YG Department of Environment Monitoring and Inspections Section	(867) 667-3227
YG Environmental Protection Branch	(867) 667-3436
Trans North Helicopter (emergency air evacuation)	(867) 536-2100 or Whitehorse dispatch (867) 668-2177
CANUTEC (Dangerous Goods information)	0 (613) 996-6666
Yukon Emergency Response Spill Line	(867) 667-7244

PETROLEUM PRODUCT SPILLS

Spills and leaks are addressed herein.

A, “**spill**” is defined as:

“Petroleum product or lubricant which is poured, spilled, or pumped onto the ground or into water, by faulty conveyance or transfer, overturned vehicles or equipment, or through human error or negligence.”

Severity rating:	Non-Reportable – Less than 100 litres*
	Minor – More than 100 litres and Less than 400 litres
	Major – More than 400 and Less than 1,000 litres
	Emergency - More than 1,000 litres

*If a spill is less than 100 litres and has not entered a watercourse, the Owner and/or operator do not have to report the spill but CMC will endeavour to report spills of any severity.

A “**leak**” is defined as:

“Passing of a petroleum product through a breach, tear or puncture in a container, or receptacle at a rate of less than 10 litres per minute.”

Please find a table of reportable spills for various substances in Appendix A.

Reporting Procedures

The following two levels of reporting is required by any individual who locates a spill or leak:

Report to a Supervisor: Refers to the direct supervisor in charge of the individual who located the spill or leak.

and,

Report to the Owner: The Owner shall immediately be given details of any leak or spill. It is the Owner's responsibility to ensure protection of human health and safety, provide directions to stop or contain spills, and report the spill (if necessary, see severity rating and notes above) to affected agencies prior to investigating the spill themselves.

Affected Agencies: Affected Agencies shall all be contacted through the 24-hour emergency spill response line at **(867) 667-7244**.

The following information shall be conveyed to the affected agencies through the 24-hour Emergency Spill Response Line. This information should be documented on the "Spill Reporting Form" provided in Appendix B.

- Location of the Spill or Leak
 - Nearest community, town, highway, major water body, kilometre location on highway if known etc.
- Time of Spill
- Severity of Spill or Leak
 - Minor – more than 100 litres and less than 400 litres
 - Major – more than 400 litres and less than 1,000 litres
 - Emergency - more than 1,000 litres
- Type of Spill
 - Total loss/leakage
 - Overturned vehicle or tanker (plus name of transport company)
 - Ruptured tank
 - Lost drum
- Product Spilled
 - Diesel Fuel (Identify Grade)
 - Gasoline
 - Lubricant (Identify Grade)
 - Other (Identify)
- Nearest Watercourse
 - Identify by name and description the nearest watercourse, pond or lake, with an approximate distance to the spill.
 - Describe the soils conditions and direction of probable flow for the spilled product.
- Potential to enter surface water
- Fire Hazard
- Hazard to life and limb, injuries
- Environmental effect expected, if any
- Equipment and clean-up consumables on hand

Response by Affected Agencies depends upon the location of the possible spill and will vary. However, they will be co-ordinated by phoning the Emergency Response Spill Line

(867) 667-7244. For the purpose of this Plan, it is recommended that only one call be made to government or other agencies using the 24 hour spill line.

Other affected parties may include organizations associated with fuel supply and transport companies or local First Nations. Most major suppliers in the Yukon are members of the Transportation Emergency Assistance Plan (TEAP). One of the responsibilities of this organisation is the sharing of resources, consumables, equipment and personnel in the event of a spill. The transporter is responsible for contacting TEAP in the event of a spill.

The Canadian Transport Emergency Centre (CANUTEC), a branch of Transport Canada, can also be contacted for 24 hr technical advice on Dangerous Goods, as needed. The CANUTEC – help line for dangerous goods is **0 (613) 996-6666 (collect)**.

Emergency Spill Response Procedure

The first person on the scene is to do the following:

Ensure personal and worker safety, if you cannot identify the spilled substance consider it dangerous.

If Personnel Are Injured

- Call for medical help, attend to injured person, and administer first aid if safe to do so.
- Warn / remove bystanders

If Safe (do not enter confined spaces or expose self to fire hazard)

- Stop all sources of ignition and stop or reduce the source flow of the spill
- Shut off all valves
- Shut off all electrical power
- Initiate containment: put down sorbent pads and berm spill area, if possible
- Recover product and contaminated soil / other materials
- Remain at the site and assist with response as needed when help arrives.

If Unsafe

- Initiate evacuation (upgrade or upwind), move to safe area
- Notify Owner
- Report the following: location, initial spill site, possible cause, description of present condition, affecting or about to enter water.
- Isolate area and deny entry until qualified response personnel arrive
- Deny access to all unauthorized personnel
- Update Owner on spill status

Response for Gasoline Spills

If in water and if safe to do so:

1. Stop or reduce discharge, if safe to do so, by plugging, uprighting, adjusting valves, or other suitable method.
2. If possible, contain discharge by booming using commercial boom material, logs, or other material at hand.
3. If in rapidly flowing water, direct to quieter backwater using booms to deflect material.
4. Ensure that you have reported the spill.
5. Remove from water by skimming, using absorbents, and collect in suitable container (tanks, drums, plastic lined depression in ground or snow). **See Appendix C for a listing of typical spill response tools/equipment.**

NOTE: IN THE EVENT MATERIAL IS SPILLED DURING VERY WARM WEATHER AND THERE IS DANGER OF FIRE DUE TO FUMES, DO NOT ATTEMPT TO CONTAIN PRODUCT ON WATER. ALLOW PRODUCT TO DISPERSE AND EVAPORATE.

6. Dispose absorbents by recycling or incineration if conditions are suitable and after consultation with environmental authorities and/or forestry officials contacted through the Emergency Spill Response Line.

Response for Gasoline Spills (Cont'd)

If on land and it is safe to do so:

1. Stop, or reduce discharge if safe to do so by plugging, uprighting, adjusting valves or other suitable method.
2. Contain spill by diking with earth, snow and ice or other barrier, possible trenching or creating a lined sump down gradient from the spill source.
3. Ensure that you have reported the spill.
4. Remove fuel from containment area with pumps, vacuum equipment and place in appropriate containers. Ensure equipment intrinsically safe (does not have a source of ignition/spark).
5. Absorb residual liquid on natural or synthetic absorbents (e.g. 3M products).
6. Remove contaminated soils in the spill site to an appropriate disposal site if spill located near water supply or stream/river course or for aesthetic reasons.
7. Dispose of contaminated fuel by recycling or incineration. In situ, incineration may be possible if permission granted from environmental and forestry officials contacted through the Emergency Spill Response Line.

Response for Diesel Spills

If in water and if safe to do so:

1. Stop, or reduce discharge if safe to do so by plugging, uprighting, adjusting valves, or other suitable method.
2. If possible, contain discharge by booming using commercial boom material, logs or other material at hand.
3. If in rapidly flowing water, direct to quieter backwater using booms to deflect material.
4. Ensure that you have reported the spill.
5. Remove from water by skimming, using absorbents, and collect in suitable container (tanks, drums, plastic lined depression in ground or snow).
6. Dispose by recycling or incineration, if conditions are suitable and regulatory authorities grant permission.

Response for Diesel Spills (Cont'd)

If on land and it is safe to do so:

1. Stop or reduce discharge if safe to do so by plugging, uprighting, adjusting valves or other suitable method.
2. Contain spill by diking with earth, snow or ice or other barrier, possible trenching or creating a lined sump down gradient from the spill source.
3. Ensure that you have reported the spill.
4. Remove fuel from containment area with pumps, vacuum equipment and place in appropriate containers.
5. Absorb residual liquid on natural or synthetic absorbents (e.g. 3M products).
6. Remove contaminated soils in the spill to an appropriate disposal site if spill site is located near water supply or stream/river course or for aesthetic reasons.
7. Dispose of contaminated fuel by recycling or incineration. In site, incineration may be possible if permission granted from environmental and forestry officials.

Hazardous Materials Information

Gasoline

Characteristics

- Flammable
- Solubility in water 1 to 100 ppm
- Floats
- Flash point - 38 to -43 C

Human Health

- Moderately toxic by inhalation. Avoid prolonged exposure to fumes

Environment

- Harmful to aquatic life. Fish toxicity: 5 - 40 ppm rainbow trout

Protective Clothing

- No specific recommendations. Protective clothing is required.

Diesel

Characteristics

- Combustible/Flammable liquid
- Insoluble in water (30 ppm)
- Floats
- Flash point 52 to 96 C

Human Health

- Low toxicity by all routes

Environment

- Fish toxicity: 10 ppm rainbow trout; 2 ppm for grass shrimp

Protective Clothing

- Gloves and boots made from neoprene or butyl rubber

SPILL RESPONSE FOR PETROLEUM PRODUCTS (FUELS)

APPENDIX A

REPORTABLE SPILLS

SPILL RESPONSE FOR PETROLEUM PRODUCTS (FUELS) - APPENDIX A

A spill in excess of the following thresholds is considered a spill under the Yukon *Spill Regulations* (O.I.C. 1996/193), pursuant to the Environment Act. In this table, the listed regulations "Federal Regulations" means the *Transportation of Dangerous Goods Regulations* (Canada) Sor/85/77 of January 18, 1985.

Substance Spilled	TDG Code	Reportable Quantity
Explosives of Class 1 as defined in section 3.9 of the Federal Regulations.	1	Any amount
Flammable gases, of Division 1 of Class 2 as defined in section 3.11 (a) of the Federal Regulations.	2.1	Any amount of gas from a container larger than 100 L, or where the spill results from equipment failure, error or deliberate action or inaction.
Non-flammable gases of Division 2 of Class 2 as defined in section 3.11 (d) of the Federal Regulations.	2.2	Any amount of gas from a container larger than 100 L, or where the spill results from equipment failure, error or deliberate action or inaction.
Poisonous gases of Division 3 of Class 2 as defined in section 3.11(b) of the Federal Regulations.	2.3	Any amount
Corrosive gases of Division 4 of Class 2 as defined in section 3.11 (c) of the Federal Regulations.	2.4	Any amount
Flammable liquids of Class 3 as defined in section 3.12 of the Federal Regulations.	3	200 L (Any amount if spilled into a watercourse)
Flammable solids of Class 4 as defined in section 3.15 of the Federal Regulations.	4	25 kg
Products or substances that are oxidizing substances of Division 1 of Class 5 as defined in sections 3.17(a) and 3.18(a) of the Federal Regulations.	5.1	50 kg or 50 L
Products or substances that are organic compounds that contain the bivalent "-O-O-" structure of Division 2 of Class 5 as defined in sections 3.17 (b) and 3.18 (b) of the Federal Regulations.	5.2	1 kg or 1L
Products or substances that are poisons of Division 1 of Class 6 as defined in sections 3.19 (a) to (e) and 3.20 (a) of the Federal Regulations.	6.1	5 kg or 5 L
Organisms that are infectious or that are reasonable believed to be infectious and the toxins of these organisms as defined in sections 3.19(f) and 3.20(b) of the Federal Regulations.	6.2	Any amount
Radioactive materials of Class 7 as defined by section 3.24 of the Federal Regulations.	7	Any discharge or a radiation level exceeding 10 mSv/h at the package surface and 200 mSv/h at 1 m from the package surface.
Products or substances of Class 8 as defined by section 3.24 of the Federal Regulations.	8	5 kg or 5 L
Miscellaneous products or substances of Division 1 of Class 9 as defined by sections 3.27 (1) and 2 (a) of the Federal Regulations.	9	50 kg or 50 L

SPILL RESPONSE FOR PETROLEUM PRODUCTS (FUELS)

APPENDIX B

SPILL REPORTING FORM

Spill Reporting Form

- 1) Type: (check) Oil ____ Gasoline ____ Diesel ____ Sewage ____
Other (name) _____
- 2) Source (Company): _____
- 3) Severity: (check) Minor 100 – 400 litres ____ Major 400 - 1,000 litres ____
Emergency more than 1,000 litres ____
- 4) Date of Incident: _____ Time: _____
- 5) General Roadway Kilometre Mine Site Location: _____
- 6) Specifics of Location (nearest community, watercourse etc.): _____

- 7) Cause of Incident (e.g.: building failure): _____
- 8) Reason: (e.g.: earthquake): _____
- 9) Weather Conditions: Temperature ____ Wind Direction/Speed ____ Precipitation ____
- 10) Hazards to human life or health: _____
- 11) Expected Environmental Effects: _____
- 12) Nearest Surface Water with Approximate Distance to Spill: _____

- 13) Potential to Enter Surface Water: _____
- 14) Fish Kill: Yes ____ No ____ Bird Kill: Yes ____ No ____
- 15) Fire Hazard: _____
- 16) Threat to drinking water: _____
- 17) Who to contact at the scene: _____
Company: _____ Phone: _____
- 18) General Comments: _____
- 19) How to prevent recurrence: _____
- 20) Action taken to date: Containment: _____
Clean up: _____
- Reported by:
Name: _____ Dept.: _____ Phone: _____
- Reported to:
Name: _____ Dept.: _____ Phone: _____

SPILL RESPONSE FOR PETROLEUM PRODUCTS (FUELS)

APPENDIX C

LIST OF TYPICAL SPILL RESPONSE EQUIPMENT

List of Typical Spill Response Equipment

- **Absorbents** (For Petroleum Hydrocarbon {Fuels, Lubricants, and Solvents} and Wastewater)
 - o Booms
 - o Sheets
 - o Towels
 - o Absorbent granules

- **Contaminated Soils Recovery Tools**
 - o Shovels
 - o Picks
 - o Excavators
 - o Loaders
 - o Trucks

- **Liquid Recovery Tools**
 - o Pumps
 - o Containers
 - o Vacuum / Eductor Truck

- **Fire Suppression Equipment**
 - o Various, for different material types

- **Personal Safety Equipment**
 - o Protective Clothing
 - o Eye Protection
 - o Breathing Apparatus

Note:

This is by no means an exhaustive list of materials and tools that can be assembled and used for spill response.

More information on spill response equipment and equipment suppliers can be found on the Internet. Yukon Explosives in Whitehorse is an example of a local supplier.

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APPENDIX B
WATER AND SEDIMENT QUALITY TESTING RESULTS

November 2009

Sample Description:		Detection Limits	CCME Guidelines for Freshwater Aquatic Life	MMER Authorized Limits of Deleterious Substances	CMC-11										
Labs Number:					491618-3	496018-3	2104232-1	559841-2	569012-11	A924283	690007-3	693949-5		706062-3	711146-4
Collected by:					PI	CSF	PI	PI/JM	PI	PI	DW	JW	MC	NM	MC
Sample Date:					07-Sep-06	21-Sep-06	08-Dec-06	12-Jul-07	21-Aug-07	20-May-09	24-Jun-09	19-Jul-09	31-Aug-09	29-Sep-09	27-Oct-09
Matrix:		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water		
Parameter	Unit														
Internal Analysis															
pH			6.5 - 9.0	6.0-9.5	7.3	7.9	5.87				7.8	7.96		7.78 7.88	
Temperature C	C				5.4	4.5	3.1				7.1	7.1	Adit	0.4 0.9	
Conductivity	µS/cm				596	522	529				483	502	Closed	471 519	
Total Dissolved Solids TDS	mg/L				289	261	265				306	328	No Flow	299 338	
Flow	m3/s				Too low	Too low	0.0005514				0.00138	0.00095		0.00026 0.00069	
Dissolved Oxygen	mg/L		5.5 - 9.5		8.09	8.25	8.33								
External Analysis															
Metals Dissolved (Trace)															
Silicon	mg/L				4.10	4.67	4.21	4.40	4.52	3.07	4.44	4.43		3.94 4.07	
Sulfur	mg/L				40.5	42.5	28.3	39.9	41.8	26	43.6	47.3		45.6 48.8	
Aluminum	mg/L				<0.005	<0.005	<0.005	0.005	0.01	0.0469	<0.005	0.006		0.003 <0.002	
Antimony	mg/L				0.0045	0.0049	0.005	0.0051	0.0047	0.00328	0.0045	0.0053		0.0027 0.004	
Arsenic	mg/L				0.0165	0.017	0.0164	0.0151	0.0164	0.00846	0.0138	0.017		0.002 0.0024	
Barium	mg/L				0.0	0.0	0.0	0.0	0.011	0.00705	0.01	0.011		0.024 0.023	
Beryllium	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00001	<0.0001	<0.0001		<0.0001 <0.0001	
Bismuth	mg/L				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005		<0.0005 <0.0005	
Boron	mg/L				0.004	0.003	0.004	0.003	0.003	< 0.50	0.003	0.002		0.004 0.004	
Cadmium	mg/L				0.00628	0.0068	0.00614	0.0102	0.00942	0.00553	0.00987	0.00977		0.0154 0.00959	
Chromium	mg/L				<0.0005	<0.0005	<0.0005	0.0005	<0.0005	<0.0001	<0.0005	<0.0005		<0.0005 0.0008	
Cobalt	mg/L				0.0002	0.0001	<0.0001	0.0003	0.0002	0.000228	0.0014	0.0007		0.0027 0.0026	
Copper	mg/L				0.002	0.002	0.003	0.001	0.004	0.00117	0.002	0.002		0.003 0.002	
Lead	mg/L				0.0014	0.001	0.0005	0.0008	0.0006	0.000615	0.0006	0.0007		0.0168 0.0002	
Lithium	mg/L				0.011	0.012	0.011	0.01	0.011	0.0067	0.011	0.011		0.009 0.011	
Molybdenum	mg/L				0.005	0.005	0.004	0.004	0.004	0.00287	0.004	0.004		0.003 0.005	
Nickel	mg/L				0.0039	0.0029	0.0031	0.0042	0.0042	0.0051	0.0148	0.0107		0.0259 0.0122	
Selenium	mg/L				<0.0002	0.0005	<0.0002	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002		<0.0002 <0.0002	
Silver	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.000015	<0.00001	0.00001		<0.00001 <0.00001	
Strontium	mg/L				0.41	0.384	0.392	0.42	0.398	0.227	0.399	0.408		0.422 0.446	
Thallium	mg/L				<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000011	<0.00005	<0.00005		<0.00005 <0.00005	
Tin	mg/L				<0.001	<0.001	<0.001	<0.001	<0.001	<0.00001	<0.001	<0.001		<0.001 <0.001	
Titanium	mg/L				0.002	0.0031	0.0036	0.0021	0.0027	0.0015	0.0013	0.0017		0.0012 0.0034	
Uranium	mg/L				0.0217	0.0251	0.0233	0.0228	0.0227	0.0101	0.0213	0.0216		0.0095 0.02	
Vanadium	mg/L				0.0005	<0.0001	0.0002	0.0012	0.001	<0.0002	0.0006	0.0003		0.0003 0.0022	
Zinc	mg/L				5.3	5.38	5.48	6.87	6.55	3.31	7.82	7.98		7.64 7.32	
Metals Total (Trace)															
Calcium	mg/L				74.2	79.8	86	74.8	77.1	43.4	70.3	80.4		70.5 87.6	
Iron	mg/L	0.1-0.2	0.3		<0.2	<0.2	0.3	<0.1	<0.1	0.273	0.1	<0.05		0.24 7.44	
Magnesium	mg/L				14	16	17.4	14.9	15.2	8.53	13.9	15.7		13.5 18.5	
Manganese	mg/L				0.074	0.069	0.064	0.157	0.122	0.0518	0.406	0.257		0.531 1.14	
Potassium	mg/L				0.9	1.1	1.3	1	1	0.74	1.1	1		1.4 2.9	
Silicon	mg/L				4.47	4.12	4.95	4.34	4.3	3.7	3.88	4.32		3.52 10.9	
Sodium	mg/L				2	2.1	2.3	2.6	2.1	1.26	2	2		2.4 3.1	
Sulfur	mg/L				39.5	38.2	44.1	39.5	41	26	39.9	45.7		43.3 48.3	
Mercury	mg/L								<0.02						
Aluminum	mg/L		0.005 - 0.1 ¹		0.01	0.01	0.454	0.011	0.008	0.303	0.043	0.015		0.195 7.57	
Antimony	mg/L				0.0044	0.0043	0.005	0.005	0.0046	0.00327	0.0047	0.0044		0.0024 0.0025	
Arsenic	mg/L	0.0004	0.005	1.00	0.015	0.016	0.0217	0.0165	0.0156	0.0116	0.0137	0.0156		0.0035 0.017	
Barium	mg/L				0.01	0.01	0.013	0.012	0.011	0.00971	0.011	0.011		0.025 0.074	
Beryllium	mg/L				<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	0.00006	<0.0001	<0.0001		<0.0001 0.0005	
Bismuth	mg/L				<0.001	<0.001	<0.0005	<0.0005	<0.0005	0.000012	<0.0005	<0.0005		<0.0005 <0.0005	
Boron	mg/L				0.004	0.004	0.004	0.006	0.005	< 0.50	0.004	0.004		0.006 0.009	
Cadmium	mg/L	0.00001-0.00002	calculated ²		0.00654	0.0064	0.00618	0.0106	0.00958	0.00547	0.00987	0.00912		0.0142 0.0107	
Chromium	mg/L	0.0005-0.001	0.001 ³		<0.001	<0.001	0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005		<0.0005 0.0056	
Cobalt	mg/L				0.0002	<0.0002	0.0004	0.0005	0.0004	0.000376	0.0015	0.0007		0.0028 0.0066	
Copper	mg/L	0.002	0.002 - 0.004 ⁴	0.60	<0.002	<0.002	0.004	0.003	0.002	0.00406	0.005	0.004		0.006 0.016	
Lead	mg/L	0.0002	0.001 - 0.007 ⁵	0.40	0.002	0.001	0.0055	0.0012	0.0009	0.00692	0.002	0.0008		0.0288 0.033	
Lithium	mg/L				0.01	0.01	0.013	0.012	0.012	0.0069	0.012	0.014		0.01 0.026	
Molybdenum	mg/L	0.002	0.073		0.004	0.006	0.004	0.005	0.004	0.00265	0.004	0.004		0.003 0.006	
Nickel	mg/L	0.001	0.025 - 0.15 ⁶	1.00	0.0039	0.004	0.0039	0.0066	0.0063	0.00558	0.0152	0.0129		0.0262 0.0241	
Selenium	mg/L	0.0004	0.0004		<0.0004	<0.0004	<0.0002	0.0008	0.0005	<0.00004	<0.0002	0.0003		0.0004 0.0009	
Silver	mg/L	0.0002 ²	0.0001		<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	0.000104	<0.00001	0.00002		0.00005 0.0005	
Strontium	mg/L				0.406	0.41	0.436	0.423	0.45	0.214	0.422	0.442		0.43 0.521	
Thallium	mg/L	0.0001	0.0008		<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	0.000013	<0.00005	<0.00005		<0.00005 0.00015	
Tin	mg/L				<0.002	<0.002	<0.001	<0.001	<0.001	0.00004	<0.001	<0.001		<0.001 <0.001	
Titanium	mg/L				0.0022	0.0024	0.0231	0.0025	0.0022	0.0094	0.005	0.003		0.0102 0.33	
Uranium	mg/L				0.0247	0.0255	0.0254	0.0245	0.0256	0.0106	0.0208	0.0217		0.0093 0.0234	
Vanadium	mg/L				<0.0002	<0.0002	0.0008	0.0001	0.0002	0.0005	0.0001	0.0001		0.0004 0.0127	
Zinc	mg/L	0.002	0.03	1.00	4.8	4.84	4.96	6.52	6.64	3.5	7.26	8.08		6.98 8.11	
Zirconium	mg/L				<0.002	<0.002	<0.001	<0.001	<0.001	<0.0001	<0.				

Sample Description:		Detection Limits	CCME Guidelines for Freshwater Aquatic Life	MMER Authorized Limits of Deleterious Substances	CMC-M1										
Labs Number:					491618-10	496018-13	559841-3	569012-10	A924283	690007-1	693949-1	702001-1	706062-1	711146-1	
Collected by:					PI	CSF	PI/JM	PI	PI	DW	JW	MC	NM	MC	
Sample Date:					07-Sep-06	23-Sep-06	12-Jul-07	21-Aug-07	20-May-09	24-Jun-09	19-Jul-09	31-Aug-09	29-Sep-09	27-Oct-09	
Matrix:					Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	
Parameter	Unit														
Internal Analysis															
pH			6.5 - 9.0	6.0-9.5	7.6	7.8				7.31	7.51	7	7.14	7.41	
Temperature C	C				10.2	3.4				7.1	9.0	6.1	2.2	0.0	
Conductivity	µS/cm				59.5	49.6				24	33	39	33	38	
Total Dissolved Solids TDS	mg/L				29.4	24.6				10	19	22	19	22	
Flow	m3/s				0.699	0.26				0.61	0.18	0.11	0.22	0.10	
Dissolved Oxygen	mg/L		5.5 - 9.5		8.79	8.73									
External Analysis															
Metals Dissolved (Trace)															
Silicon	mg/L				3.34	3.72	3.28	3.97	3.31	2.48	3.13	3.45	3.37	3.76	
Sulfur	mg/L				1.3	1.9	1.2	1.4	<3	0.7	1.1	1.4	1.3	1.4	
Aluminum	mg/L				0.084	0.056	0.091	0.078	0.152	0.09	0.079	0.072	0.084	0.068	
Antimony	mg/L				<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	<0.0002	0.0007	0.0004	<0.0002	<0.0002	
Arsenic	mg/L				<0.0002	<0.0002	0.0002	<0.0002	0.00009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Barium	mg/L				0.0	0.0	0.0	0.008	0.0081	0.001	0.007	0.008	0.006	0.006	
Beryllium	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	0.00004	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L				0.0	<0.0005	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L				<0.002	<0.002	<0.002	<0.002	<.050	<0.002	<0.002	<0.002	<0.002	<0.002	
Cadmium	mg/L				0.00002	<0.00001	<0.00001	<0.00001	0.000008	<0.00001	<0.00001	0.00001	0.00001	<0.00001	
Chromium	mg/L				<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cobalt	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	0.000023	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Copper	mg/L				<0.001	<0.001	<0.001	<0.001	0.00066	<0.001	<0.001	0.001	<0.001	<0.001	
Lead	mg/L				0.0002	<0.0001	<0.0001	<0.0001	0.000021	<0.0001	<0.0001	0.0007	0.0002	<0.0001	
Lithium	mg/L				0.001	0.001	<0.001	<0.001	0.0008	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L				0.001	<0.001	<0.001	<0.001	0.00044	<0.001	0.001	<0.001	<0.001	<0.001	
Nickel	mg/L				<0.0005	<0.0005	<0.0005	<0.0005	0.00012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L				<0.0002	0.0003	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	<0.000005	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	
Strontium	mg/L				0.066	0.066	0.05	0.068	0.056	0.037	0.054	0.065	0.052	0.059	
Thallium	mg/L				<0.00005	<0.00005	<0.00005	<0.00005	0.000006	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Tin	mg/L				<0.001	<0.001	<0.001	<0.001	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	
Titanium	mg/L				0.0016	0.001	0.0013	0.0017	0.0021	0.0006	0.0019	0.0015	0.001	0.0008	
Uranium	mg/L				0.0007	0.0005	0.0007	0.0005	0.00082	0.0006	<0.0005	0.0005	<0.0005	<0.0005	
Vanadium	mg/L				0.0003	0.0001	0.0003	0.0003	0.0005	0.0001	0.0002	0.0002	0.0002	0.0004	
Zinc	mg/L				0.003	0.003	0.007	0.005	0.002	<0.001	0.002	0.002	0.001	<0.001	
Metals Total (Trace)															
Calcium	mg/L				5.8	6.4	4.9	6.3	5.89	3.2	5.1	6	5.1	5.7	
Iron	mg/L	0.1-0.2	0.3		<0.2	<0.2	<0.1	<0.1	0.169	0.17	0.05	0.07	0.06	0.08	
Magnesium	mg/L				0.4	0.5	0.4	0.5	0.5	0.2	0.4	0.4	0.4	0.4	
Manganese	mg/L				<0.01	<0.01	<0.005	<0.005	0.00143	<0.005	<0.005	<0.005	<0.005	<0.005	
Potassium	mg/L				<0.8	<0.8	<0.4	<0.4	0.31	<0.4	<0.4	<0.4	<0.4	<0.4	
Silicon	mg/L				3.8	3.44	3.1	3.76	3.53	2.55	3	3	3.08	3.07	
Sodium	mg/L				1	1	1.7	1.5	1.14	1	1.2	1.4	1.3	1.3	
Sulfur	mg/L				1	2	1.1	1.3	<3	0.6	0.9	1	1.3	1.3	
Mercury	mg/L							<0.02							
Aluminum	mg/L		0.005 - 0.1 ¹		0.11	0.089	0.125	0.119	0.162	0.118	0.094	0.111	0.126	0.111	
Antimony	mg/L				<0.0004	<0.0004	<0.0002	<0.0002	<0.00002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L	0.0004	0.005	1.00	<0.0004	<0.0004	<0.0002	<0.0002	0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Barium	mg/L				0.008	0.01	0.007	0.008	0.00778	0.005	0.007	0.008	0.007	0.006	
Beryllium	mg/L				<0.0002	<0.0002	<0.0001	<0.0001	0.00003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L				<0.001	<0.001	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L				<0.004	<0.004	<0.002	<0.002	<.050	0.002	<0.002	0.003	<0.002	0.002	
Cadmium	mg/L	0.00001-0.00002	calculated ²		<0.00002 ¹	<0.00002 ¹	<0.00001	<0.00001	0.000016	<0.00001	<0.00001	0.00006	0.00013	<0.00001	
Chromium	mg/L	0.0005-0.001	0.001 ³		<0.001	<0.001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cobalt	mg/L				<0.0002	<0.0002	<0.0001	0.0001	0.000025	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	
Copper	mg/L	0.002	0.002 - 0.004 ⁴	0.60	<0.002	<0.002	<0.001	0.006	0.00074	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	mg/L	0.0002	0.001 - 0.007 ⁵	0.40	0.0002	<0.0002	<0.0001	0.0002	0.000024	0.0002	<0.0001	0.0002	0.0003	<0.0001	
Lithium	mg/L				<0.002	<0.002	<0.001	0.001	0.0008	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L	0.002	0.073		<0.002	<0.002	<0.001	<0.001	0.00047	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	mg/L	0.001	0.025 - 0.15 ⁶	1.00	<0.001	<0.001	<0.0005	<0.0005	0.00012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L	0.0004	0.001		<0.0004	<0.0004	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L	0.0002 ²	0.0001		<0.0002	<0.0002	<0.0001	<0.0001	<0.000005	<0.00001	0.00002	0.00001	<0.00001	<0.00001	
Strontium	mg/L				0.065	0.067	0.048	0.069	0.0534	0.042	0.055	0.066	0.055	0.061	
Thallium	mg/L	0.0001	0.0008		<0.0001	<0.0001	<0.00005	<0.00005	0.000004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Tin	mg/L				<0.002	<0.002	<0.001	<0.001	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	
Titanium	mg/L				0.0023	0.002	0.0027	0.0016	0.0024	0.0016	0.0026	0.002	0.0017	0.0024	
Uranium	mg/L				<0.001	<0.001	0.0007	0.0006	0.00083	0.0006	<0.0005	<0.0005	0.0006	0.0006	
Vanadium	mg/L				0.0003	<0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	
Zinc	mg/L	0.002	0.03	1.00	<0.002	0.003	0.005	0.0							

Sample Description:		Detection Limits	CCME Guidelines for Freshwater Aquatic Life	MMER Authorized Limits of Deleterious Substances		CMC-M2											
Labs Number:	491618-11					496018-2	559841-4	569012-12	A924283	690007-2	693949-2	702001-2	706062-2	711146-2	717377-1		
Collected by:	PI					CSF	PI/JM	PI	PI	DW	JW	MC	NM	MC	MC		
Sample Date:	07-Sep-06					21-Sep-06	12-Jul-07	21-Aug-07	20-May-09	24-Jun-09	19-Jul-09	31-Aug-09	30-Sep-09	26-Oct-09	05-Dec-09		
Matrix:	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water					
Parameter	Unit																
Internal Analysis																	
pH			6.5 - 9.0	6.0-9.5		7.3	7.5				7.19	7.58	7.41	7.25	7.47	7.69	
Temperature C	C					11.2	6				8.2	9.1	6.6	2.6	0.4	-1.0	
Conductivity	µS/cm					52.4	56.2				30	41	45	40	55	67	
Total Dissolved Solids TDS	mg/L					26.2	28				20	24	27	22	31	34	
Flow	m3/s					0.247	0.339				1.15	0.33	0.21	0.41	0.33	0.09	
Dissolved Oxygen	mg/L		5.5 - 9.5			8.79	8.09										
External Analysis																	
Metals Dissolved (Trace)																	
Silicon	mg/L					3.30	3.68	3.35	3.96	3.4	2.71	3.28	3.4	3.45	3.73	3.72	
Sulfur	mg/L					1.5	2	1.4	1.7	<3	0.9	1.3	1.6	1.5	2.5	2.1	
Aluminum	mg/L					0.051	0.029	0.066	0.05	0.111	0.072	0.051	0.056	0.067	0.046	0.032	
Antimony	mg/L					<0.0002	<0.0002	<0.0002	<0.0002	0.00006	<0.0002	0.0007	0.0004	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L					<0.0002	<0.0002	<0.0002	<0.0002	0.0001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Barium	mg/L					0.0	0.0	0.0	0.008	0.00768	0.005	0.007	0.008	0.007	0.007	0.007	
Beryllium	mg/L					<0.0001	<0.0001	<0.0001	<0.0001	0.00003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L					0.0	<0.0005	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L					<0.002	<0.002	<0.002	<0.002	<.050	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	
Cadmium	mg/L					<0.00001	0.00001	<0.00001	0.00001	0.000023	<0.00001	0.00001	0.00039	0.00002	<0.00001	<0.00001	
Chromium	mg/L					0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cobalt	mg/L					<0.0001	<0.0001	<0.0001	<0.0001	0.000018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Copper	mg/L					<0.001	<0.001	<0.001	<0.001	0.00077	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Lead	mg/L					0.0002	<0.0001	<0.0001	<0.0001	0.000106	<0.0001	0.0001	0.0007	<0.0001	<0.0001	<0.0001	
Lithium	mg/L					0.001	0.001	<0.001	<0.001	0.0008	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L					0.001	<0.001	<0.001	<0.001	0.0006	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	
Nickel	mg/L					<0.0005	<0.0005	<0.0005	<0.0005	0.00012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L					<0.0002	0.0003	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L					<0.0001	<0.0001	<0.0001	<0.0001	0.000005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L					0.076	0.074	0.067	0.083	0.0686	0.045	0.063	0.079	0.062	0.08	0.076	
Thallium	mg/L					<0.00005	<0.00005	<0.00005	<0.00005	0.000004	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Tin	mg/L					<0.001	<0.001	<0.001	<0.001	0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Titanium	mg/L					0.0009	0.0006	0.001	0.0006	0.0011	0.0005	0.0008	0.0008	0.0007	0.0006	<0.0005	
Uranium	mg/L					0.0007	0.0005	0.0006	0.0007	0.00108	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	
Vanadium	mg/L					0.0002	0.0001	0.0007	0.0003	0.0003	0.0002	0.0001	0.0002	0.0002	0.0004	0.0002	
Zinc	mg/L					0.003	0.004	0.005	0.008	0.0057	0.002	0.003	0.005	0.002	0.002	0.002	
Metals Total (Trace)																	
Calcium	mg/L					6.5	7.6	6.3	7.9	7.74	4.3	6.4	6.9	5.9	8.4	8.3	
Iron	mg/L	0.1-0.2	0.3			<0.2	<0.2	<0.1	<0.1	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Magnesium	mg/L					0.5	0.7	0.6	0.8	0.73	0.4	0.5	0.6	0.5	0.8	0.7	
Manganese	mg/L					<0.01	<0.01	<0.005	<0.005	0.00081	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Potassium	mg/L					<0.8	<0.8	<0.4	<0.4	0.00029	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
Silicon	mg/L					3.57	3.41	3.23	3.84	3.56	2.69	3.12	3.06	2.83	3.18	3.2	
Sodium	mg/L					1	2	1.7	1.6	1.28	1	1.2	1.4	1.2	1.4	1.5	
Sulfur	mg/L					1	2	1.4	1.7	<3	0.9	1.2	1.3	1.5	2.4	2.2	
Mercury	mg/L								<0.02								
Aluminum	mg/L		0.005 - 0.1 ¹			0.065	0.064	0.099	0.077	0.115	0.092	0.061	0.069	0.092	0.063	0.045	
Antimony	mg/L					<0.0004	<0.0004	<0.0002	<0.0002	0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L	0.0004	0.005	1.00		<0.0004	<0.0004	<0.0002	<0.0002	0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Barium	mg/L					0.007	0.008	0.008	0.011	0.00756	0.005	0.007	0.007	0.006	0.007	0.007	
Beryllium	mg/L					<0.0002	<0.0002	<0.0001	<0.0001	0.00003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L					<0.001	<0.001	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L					<0.004	<0.004	0.002	<0.002	<.050	<0.002	<0.002	0.003	<0.002	0.002	<0.002	
Cadmium	mg/L	0.00001-0.00002	calculated ²			<0.00002 [*]	<0.00002 [*]	0.00001	0.00001	0.000018	0.00002	<0.00001	0.00011	0.00006	<0.00001	0.00001	
Chromium	mg/L	0.0005-0.001	0.001 ³			<0.001	0.001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	0.0008	<0.0005	0.0006	<0.0005	
Cobalt	mg/L					<0.0002	<0.0002	<0.0001	0.0003	0.000027	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	
Copper	mg/L	0.002	0.002 - 0.004 ⁴	0.60		<0.002	<0.002	0.002	<0.001	0.00082	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	
Lead	mg/L	0.0002	0.001 - 0.007 ⁵	0.40		0.0002	<0.0002	0.0001	<0.0001	0.000043	0.0003	0.0002	0.0002	0.0001	<0.0001	0.0002	
Lithium	mg/L					<0.002	<0.002	0.001	0.001	0.0009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L	0.002	0.073			<0.002	<0.002	<0.001	0.001	0.00059	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	
Nickel	mg/L	0.001	0.025 - 0.15 ⁶	1.00		<0.001	<0.001	<0.0005	<0.0005	0.00011	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L	0.0004	0.001			<0.0004	<0.0004	0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L	0.0002 ²	0.0001			<0.0002	<0.0002	<0.0001	<0.0001	<0.000005	<0.00001	0.00002	0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L					0.072	0.073	0.069	0.094	0.066	0.053	0.06					

Sample Description: Labs Number: Collected by: Sample Date: Matrix:		Detection Limits	CCME Guidelines for Freshwater Aquatic Life	MMER Authorized Limits of Deleterious Substances	CMC-OC2											
					491618-8	496018-15	559841-5	569012-7	A924283	690007-5	693949-3	702001-4	706062-4	711146-5	717377-3	
					PI	CSF	PI/JM	PI	PI	DW	JW	MC	NM	MC	MC	
					07-Sep-06	23-Sep-06	12-Jul-07	21-Aug-07	20-May-09	24-Jun-09	19-Jul-09	31-Aug-09	30-Sep-09	27-Oct-09	05-Dec-09	
Parameter	Unit															
Internal Analysis																
pH			6.5 - 9.0	6.0-9.5	7.3	7.5			7.5	7.31	7.59	7.39	7.38	7.53	7.91	
Temperature C	C				7.1	6.7				11.1	14.2	9.3	6.2	0.7	-1.0	
Conductivity	µS/cm				101.8	59.2			49	41	42	45	47	45	63	
Total Dissolved Solids TDS	mg/L				50.8	29.5				19	25	25	20	20	30	
Flow	m3/s				Too Low	0.543				2.97	1.06	0.46	0.88	0.36	0.19	
Dissolved Oxygen	mg/L		5.5 - 9.5		7.51	8.38										
External Analysis																
Metals Dissolved (Trace)																
Silicon	mg/L				2.64	2.78	2.80	2.96	2.94	2.74	2.86	2.83	2.86	2.75	2.91	
Sulfur	mg/L				1	1.1	1.1	1	<3	0.9	1	1	1	0.9	0.9	
Aluminum	mg/L				0.022	0.012	0.031	0.044	0.0365	0.031	0.035	0.024	0.026	0.018	0.017	
Antimony	mg/L				<0.0002	<0.0002	<0.0002	<0.0002	0.00004	<0.0002	0.0007	0.0003	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L				<0.0002	<0.0002	<0.0002	<0.0002	0.00011	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	
Barium	mg/L				0.0	0.0	0.0	0.008	0.00588	0.005	0.006	0.005	0.005	0.005	0.004	
Beryllium	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	0.00002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L				<0.0005	<0.0005	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L				<0.002	<0.002	<0.002	<0.002	<.050	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
Cadmium	mg/L				<0.00001	<0.00001	<0.00001	<0.00001	0.000005	<0.00001	<0.00001	0.00069	0.00002	<0.00001	<0.00001	
Chromium	mg/L				<0.0005	0.001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cobalt	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	0.000019	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Copper	mg/L				<0.001	<0.001	<0.001	<0.001	0.00036	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	mg/L				0.0004	<0.0001	<0.0001	<0.0001	0.000041	<0.0001	0.0001	0.0004	<0.0001	<0.0001	<0.0001	
Lithium	mg/L				<0.001	0.001	<0.001	<0.001	0.0007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L				<0.001	<0.001	<0.001	<0.001	0.00065	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	mg/L				<0.0005	<0.0005	<0.0005	<0.0005	0.00007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L				<0.0002	0.0004	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L				<0.0001	<0.0001	<0.0001	<0.0001	<0.000005	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	
Strontium	mg/L				0.075	0.074	0.065	0.072	0.0709	0.058	0.061	0.07	0.07	0.066	0.064	
Thallium	mg/L				<0.00005	<0.00005	<0.00005	<0.00005	0.000005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
Tin	mg/L				<0.001	<0.001	<0.001	<0.001	<0.00001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Titanium	mg/L				<0.0005	<0.0005	<0.0005	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Uranium	mg/L				0.0008	0.0009	0.0011	0.0011	0.00107	0.0012	0.0012	0.0011	0.0011	0.001	0.0012	
Vanadium	mg/L				0.0002	<0.0001	0.0003	0.0002	<0.0002	0.0001	0.0002	0.0001	0.0001	0.0004	0.0001	
Zinc	mg/L				0.002	0.003	0.002	0.004	0.0015	<0.001	0.003	0.009	0.001	0.001	<0.001	
Metals Total (Trace)																
Calcium	mg/L				6.5	7.4	6.7	6.7	7.66	6	6.6	7.1	6.8	7.1	7.3	
Iron	mg/L	0.1-0.2	0.3		<0.2	<0.2	<0.1	<0.1	0.051	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Magnesium	mg/L				0.5	0.7	0.6	0.7	0.67	0.5	0.6	0.6	0.6	0.6	0.6	
Manganese	mg/L				<0.01	<0.01	<0.005	<0.005	0.00263	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
Potassium	mg/L				<0.8	<0.8	<0.4	<0.4	0.00027	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
Silicon	mg/L				2.86	2.5	2.82	2.72	3.08	2.5	2.71	2.58	2.68	2.48	2.66	
Sodium	mg/L				1	1	1.8	1.4	1.32	1.2	1.3	1.3	1.3	1.3	1.3	
Sulfur	mg/L				0.9		1	0.9	<3	0.8	0.7	0.9	1	0.8	1.1	
Mercury	mg/L							<0.02								
Aluminum	mg/L		0.005 - 0.1 ¹		0.028	0.027	0.04	0.042	0.0411	0.054	0.049	0.031	0.041	0.026	0.024	
Antimony	mg/L				<0.0004	<0.0004	<0.0002	<0.0002	0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Arsenic	mg/L	0.0004	0.005	1.00	<0.0004	<0.0004	<0.0002	<0.0002	0.00009	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Barium	mg/L				0.005	0.007	0.007	0.006	0.00583	0.005	0.005	0.005	0.005	0.005	0.005	
Beryllium	mg/L				<0.0002	<0.0002	<0.0001	<0.0001	0.00002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L				<0.001	<0.001	<0.0005	<0.0005	<0.000005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Boron	mg/L				<0.004	<0.004	<0.002	0.002	<.050	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	
Cadmium	mg/L	0.00001-0.00002	calculated ²		<0.00002 *	<0.00002 *	<0.00001	<0.00001	0.000016	<0.00001	<0.00001	0.00032	0.00005	<0.00001	<0.00001	
Chromium	mg/L	0.0005-0.001	0.001 ³		<0.001	<0.001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Cobalt	mg/L				<0.0002	<0.0002	<0.0001	<0.0001	0.000012	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	
Copper	mg/L	0.002	0.002 - 0.004 ⁴	0.60	<0.002	<0.002	<0.001	<0.001	0.00039	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	mg/L	0.0002	0.001 - 0.007 ⁵	0.40	<0.0002	<0.0002	<0.0001	<0.0001	0.000035	0.0001	<0.0001	0.0002	<0.0001	<0.0001	0.0001	
Lithium	mg/L				<0.002	<0.002	<0.001	<0.001	0.0006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	mg/L	0.002	0.073		<0.002	<0.002	<0.001	<0.001	0.00064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	mg/L	0.001	0.025 - 0.15 ⁶	1.00	<0.001	<0.001	<0.0005	<0.0005	0.00004	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
Selenium	mg/L	0.0004	0.001		<0.0004	<0.0004	<0.0002	<0.0002	<0.00004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Silver	mg/L	0.0002 ²	0.0001		<0.0002	<0.0002	<0.0001	<0.0001	<0.000005	<0.00001	0.00001	0.00002	<0.00001	<0.00001	0.00034	
Strontium	mg/L				0.071	0.075	0.063	0.074	0.0673	0.069	0.064	0.074	0.07	0.068	0.071	
Thallium	mg/L	0.0001	0.0008		<0.0001	&lt										

Report Transmission Cover Page

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Approval Status: Approved
#305 369 Terminal Ave.	Name: Silver Hart	Invoice Frequency: by Lot
Vancouver, BC, Canada	Location: Yukon	COD Status: Cash Client
V6A 4C4	LSD:	Control Number: A 129673
Attn: Denise Dronsella	P.O.:	Date Received: Oct 3, 2009
Sampled By: D. Wedman	Acct code:	Date Reported: Oct 9, 2009
Company: CMC		Report Number: 1256094

Contact & Affiliation	Address	Delivery Commitments
Denise Dronsella CMC Metals Ltds.	#305 369 Terminal Ave. Vancouver, British Columbia V6A 4C4 Phone: (604) 605-0166 Fax: (604) 692-0117 Email: dronsella@telus.net	On [Lot Approval and Final Test Report Approval] send (COC, Test Report, Invoice) by Email - Merge Reports
Don Wedman CMC Metals Ltds.	6817-87 A Ave Edmonton, Alberta T6B 0L9 Phone: (604) 637-4673 Fax: (604) 692-0117 Email: cmcmetals@shaw.ca	On [Report Approval] send (COC, Test Report) by Email - Merge Reports

Notes To Clients:

- Some total metal results were less than dissolved metal results for lot 706062. The results were verified and are within expected measurement uncertainty.
- Some ICP-MS total metal results were less than dissolved metal results for sample 706062-2 to 5. The results were verified and are within expected measurement uncertainty.
- Sample 706062-1; 3160484 Sample 706062-1 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-2; 3160485 Sample 706062-2 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-4; 3160487 Sample 706062-4 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-5; 3160488 Sample 706062-5 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.

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Sample Custody

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

Sample Disposal Date: November 08, 2009

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the top of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for an additional 30 days	\$ 2.50 per sample
Storage for an additional 60 days	\$ 5.00 per sample
Storage for an additional 90 days	\$ 7.50 per sample

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ DHL

☐ Purolator

☐ Other (specify) _____

Name	_____
Company	_____
Address	_____

Phone	_____
Fax	_____
Signature	_____

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-1	706062-2	706062-3	
		Sample Date	Sep 29, 2009	Sep 29, 2009	Sep 29, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Sylver Hart / CMC-	Sylver Hart / CMC-	Sylver Hart / CMC-	
		Matrix	M1 Water	M2 Water	11 Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.14	0.13	0.09	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Organic Carbon	Total Nonpurgeable	mg/L	5.2	5.8	1.3	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	4.8	4.5	1.2	0.5
Metals Dissolved						
Silicon	Dissolved	mg/L	3.37	3.45	3.94	0.05
Sulfur	Dissolved	mg/L	1.3	1.5	45.6	0.3
Mercury	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Aluminum	Dissolved	mg/L	0.084	0.067	0.003	0.002
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0027	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0020	0.0002
Barium	Dissolved	mg/L	0.006	0.007	0.024	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.004	0.002
Cadmium	Dissolved	mg/L	0.00001	0.00002	0.0154	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	0.0027	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	0.003	0.001
Lead	Dissolved	mg/L	0.0002	<0.0001	0.0168	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	0.009	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	0.003	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0259	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.052	0.062	0.422	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.001	0.0007	0.0012	0.0005
Uranium	Dissolved	mg/L	<0.0005	0.0007	0.0095	0.0005
Vanadium	Dissolved	mg/L	0.0002	0.0002	0.0003	0.0001
Zinc	Dissolved	mg/L	0.001	0.002	7.64	0.001
Metals Total						
Calcium	Total	mg/L	5.1	5.9	70.5	0.2
Iron	Total	mg/L	0.06	<0.05	0.24	0.05

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-1	706062-2	706062-3	
		Sample Date	Sep 29, 2009	Sep 29, 2009	Sep 29, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Sylver Hart / CMC-	Sylver Hart / CMC-	Sylver Hart / CMC-	
		Matrix	M1 Water	M2 Water	11 Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Metals Total - Continued						
Magnesium	Total	mg/L	0.4	0.5	13.5	0.1
Manganese	Total	mg/L	<0.005	<0.005	0.531	0.005
Potassium	Total	mg/L	<0.4	<0.4	1.4	0.4
Silicon	Total	mg/L	3.08	2.83	3.52	0.05
Sodium	Total	mg/L	1.3	1.2	2.4	0.4
Sulfur	Total	mg/L	1.3	1.5	43.3	0.3
Aluminum	Total	mg/L	0.126	0.092	0.195	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	0.0024	0.0002
Arsenic	Total	mg/L	<0.0002	<0.0002	0.0035	0.0002
Barium	Total	mg/L	0.007	0.006	0.025	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	<0.002	<0.002	0.006	0.002
Cadmium	Total	mg/L	0.00013	0.00006	0.0142	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001	0.0028	0.0001
Copper	Total	mg/L	<0.001	<0.001	0.006	0.001
Lead	Total	mg/L	0.0003	0.0001	0.0288	0.0001
Lithium	Total	mg/L	<0.001	<0.001	0.010	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	0.003	0.001
Nickel	Total	mg/L	<0.0005	<0.0005	0.0262	0.0005
Selenium	Total	mg/L	<0.0002	<0.0002	0.0004	0.0002
Silver	Total	mg/L	<0.00001	<0.00001	0.00005	0.00001
Strontium	Total	mg/L	0.055	0.062	0.430	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0017	0.0014	0.0102	0.0005
Uranium	Total	mg/L	0.0006	0.0006	0.0093	0.0005
Vanadium	Total	mg/L	0.0002	0.0002	0.0004	0.0001
Zinc	Total	mg/L	0.003	0.003	6.98	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	14	1
Routine Water						
pH			7.14	7.25	7.78	
Temperature of observed		°C	21.0	21.0	21.0	

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-1	706062-2	706062-3	
		Sample Date	Sep 29, 2009	Sep 29, 2009	Sep 29, 2009	
		Sample Time	NA	NA	NA	
		Sample Location				
		Sample Description	Sylver Hart / CMC- M1	Sylver Hart / CMC- M2	Sylver Hart / CMC- 11	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Routine Water - Continued						
pH						
Electrical Conductivity		µS/cm at 25 C	33	40	471	1
Calcium	Dissolved	mg/L	5.2	6.5	76.4	0.2
Magnesium	Dissolved	mg/L	0.4	0.3	14.0	0.2
Sodium	Dissolved	mg/L	1.3	1.3	2.7	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	1.1	0.4
Iron	Dissolved	mg/L	0.05	0.04	0.02	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	0.561	0.005
Chloride	Dissolved	mg/L	<0.4	<0.4	0.5	0.4
Fluoride		mg/L	<0.05	<0.05	0.13	0.05
Nitrate - N		mg/L	<0.01	<0.01	0.08	0.01
Nitrite - N		mg/L	<0.005	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.01	<0.01	0.08	0.01
Sulfate (SO4)	Dissolved	mg/L	3.9	4.5	137	0.9
Hydroxide		mg/L	<5	<5	<5	5
Carbonate		mg/L	<6	<6	<6	6
Bicarbonate		mg/L	17	19	138	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	14	16	113	5
Total Dissolved Solids	Calculated	mg/L	19	22	299	1
Hardness	Dissolved as CaCO3	mg/L	15	18	248	
Ionic Balance	Dissolved	%	97	100	100	

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-4	706062-5	
		Sample Date	Sep 30, 2009	Sep 30, 2009	
		Sample Time	NA	NA	
		Sample Location			
		Sample Description	Sylver Hart / CMC-0C2	Sylver Hart / CMC-7	
		Matrix	Water	Water	
Analyte		Units	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N		mg/L	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.14	0.09	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	0.05
Organic Carbon	Total Nonpurgeable	mg/L	2.9	2.6	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	3.0	2.4	0.5
Metals Dissolved					
Silicon	Dissolved	mg/L	2.86	2.62	0.05
Sulfur	Dissolved	mg/L	1	0.8	0.3
Mercury	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Aluminum	Dissolved	mg/L	0.026	0.015	0.002
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.005	0.005	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.00001	<0.00001	0.00001
Strontium	Dissolved	mg/L	0.070	0.060	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0011	0.0011	0.0005
Vanadium	Dissolved	mg/L	0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.001	<0.001	0.001
Metals Total					
Calcium	Total	mg/L	6.8	6.6	0.2
Iron	Total	mg/L	<0.05	<0.05	0.05

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-4	706062-5	
		Sample Date	Sep 30, 2009	Sep 30, 2009	
		Sample Time	NA	NA	
		Sample Location			
		Sample Description	Sylver Hart / CMC-0C2	Sylver Hart / CMC-7	
		Matrix	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
Metals Total - Continued					
Magnesium	Total	mg/L	0.6	0.6	0.1
Manganese	Total	mg/L	<0.005	<0.005	0.005
Potassium	Total	mg/L	<0.4	0.4	0.4
Silicon	Total	mg/L	2.68	2.44	0.05
Sodium	Total	mg/L	1.3	1.5	0.4
Sulfur	Total	mg/L	1.0	0.7	0.3
Aluminum	Total	mg/L	0.041	0.024	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	<0.0002	0.0002
Barium	Total	mg/L	0.005	0.005	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	<0.002	<0.002	0.002
Cadmium	Total	mg/L	0.00005	0.00005	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	<0.001	<0.001	0.001
Lead	Total	mg/L	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	<0.001	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	0.001
Nickel	Total	mg/L	<0.0005	<0.0005	0.0005
Selenium	Total	mg/L	<0.0002	<0.0002	0.0002
Silver	Total	mg/L	<0.00001	<0.00001	0.00001
Strontium	Total	mg/L	0.070	0.067	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	0.001
Titanium	Total	mg/L	<0.0005	<0.0005	0.0005
Uranium	Total	mg/L	0.0011	0.0011	0.0005
Vanadium	Total	mg/L	0.0002	0.0001	0.0001
Zinc	Total	mg/L	0.004	0.001	0.001
Zirconium	Total	mg/L	<0.001	<0.001	0.001
Physical and Aggregate Properties					
Solids	Total Suspended	mg/L	<2	<2	1
Routine Water					
pH			7.38	7.39	
Temperature of observed		°C	21.0	20.5	

Analytical Report

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

		Reference Number	706062-4	706062-5	
		Sample Date	Sep 30, 2009	Sep 30, 2009	
		Sample Time	NA	NA	
		Sample Location			
		Sample Description	Sylver Hart / CMC-0C2	Sylver Hart / CMC-7	
		Matrix	Water	Water	
Analyte		Units	Results	Results	Nominal Detection Limit
Routine Water - Continued					
pH					
Electrical Conductivity		µS/cm at 25 C	47	45	1
Calcium	Dissolved	mg/L	7.3	7.1	0.2
Magnesium	Dissolved	mg/L	0.7	0.6	0.2
Sodium	Dissolved	mg/L	1.5	1.5	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	0.4
Iron	Dissolved	mg/L	0.02	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	0.005
Chloride	Dissolved	mg/L	<0.4	<0.4	0.4
Fluoride		mg/L	<0.05	<0.05	0.05
Nitrate - N		mg/L	0.02	0.02	0.01
Nitrite - N		mg/L	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	0.02	0.02	0.01
Sulfate (SO4)	Dissolved	mg/L	3	2	0.9
Hydroxide		mg/L	<5	<5	5
Carbonate		mg/L	<6	<6	6
Bicarbonate		mg/L	24	27	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	20	22	5
Total Dissolved Solids	Calculated	mg/L	20	20	1
Hardness	Dissolved as CaCO3	mg/L	21	20	
Ionic Balance	Dissolved	%	110	96	

Approved by:



Laurie Brown, MSc
Client Services Manager

Methodology and Notes

Bill To: CMC Metals Ltds.	Project:	Lot ID: 706062
Report To: CMC Metals Ltds.	ID:	Control Number: A 129673
#305 369 Terminal Ave.	Name: Silver Hart	Date Received: Oct 3, 2009
Vancouver, BC, Canada	Location: Yukon	Date Reported: Oct 9, 2009
V6A 4C4	LSD:	Report Number: 1256094
Attn: Denise Dronsella	P.O.:	
Sampled By: D. Wedman	Acct code:	
Company: CMC		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alkalinity, pH, and EC in water	APHA	* Conductivity, 2510	06-Oct-09	Exova Edmonton
Alkalinity, pH, and EC in water	APHA	* Electrometric Method, 4500-H+ B	06-Oct-09	Exova Edmonton
Alkalinity, pH, and EC in water	APHA	* Titration Method, 2320 B	06-Oct-09	Exova Edmonton
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	07-Oct-09	Exova Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	06-Oct-09	Exova Edmonton
Approval-Edmonton	APHA	Checking Correctness of Analyses, 1030 E	06-Oct-09	Exova Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	06-Oct-09	Exova Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	06-Oct-09	Exova Edmonton
Chloride in Water	APHA	* Automated Ferricyanide Method, 4500-Cl- E	06-Oct-09	Exova Edmonton
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	07-Oct-09	Exova Edmonton
Mercury (Dissolved) in water	APHA	* Cold Vapour Atomic Absorption Spectrometric Method, 3112 B	06-Oct-09	Exova Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	07-Oct-09	Exova Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	06-Oct-09	Exova Edmonton
Metals Trace (Dissolved) in water	APHA	Hardness by Calculation, 2340 B	06-Oct-09	Exova Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	06-Oct-09	Exova Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	06-Oct-09	Exova Edmonton
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	06-Oct-09	Exova Edmonton
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	06-Oct-09	Exova Edmonton

* Laboratory method(s) based on reference method

References

APHA	Standard Methods for the Examination of Water and Wastewater
ISO	International Organization for Standardization
US EPA	US Environmental Protection Agency Test Methods

Methodology and Notes

Bill To:	CMC Metals Ltds.	Project:		Lot ID:	706062
Report To:	CMC Metals Ltds.	ID:		Control Number:	A 129673
	#305 369 Terminal Ave.	Name:	Silver Hart	Date Received:	Oct 3, 2009
	Vancouver, BC, Canada	Location:	Yukon	Date Reported:	Oct 9, 2009
	V6A 4C4	LSD:		Report Number:	1256094
Attn:	Denise Dronsella	P.O.:			
Sampled By:	D. Wedman	Acct code:			
Company:	CMC				

Comments:

- Some total metal results were less than dissolved metal results for lot 706062. The results were verified and are within expected measurement uncertainty.
- Some ICP-MS total metal results were less than dissolved metal results for sample 706062-2 to 5. The results were verified and are within expected measurement uncertainty.
- Sample 706062-1; 3160484 Sample 706062-1 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-2; 3160485 Sample 706062-2 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-4; 3160487 Sample 706062-4 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.
- Sample 706062-5; 3160488 Sample 706062-5 There was insufficient sample volume to reach a detection limit of 1 mg/L for TSS analysis. The detection limit was adjusted accordingly.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Information Sheet

NOTE: Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Bodycote location and proper sampling protocol

Billing Address:		Copy of Report To:		Copy of Invoice: ☐	
Company: CMC METALS LTD		Company: CMC METALS LTD.		Mail Invoice to this address for approval ☒	
Address: SUITE 305-369 TERMINAL AVE VANCOUVER, B.C. V6A 4C4		Address: 6817-87A AVE EDMONTON, AB			
Attention: DENISE DRONZELLA		Attention: D. WEDMAN		Report Results:	
Phone: 604-605-0166		Phone: 604-637-4673		Fax ☐	
Fax:		Fax:		Mail ☐	
Cell:		Cell:		Courier ☐	
e-mail:		e-mail: CMCMETALS@SHAW.CA		e-mail ☐	
Report Results:		Report Results:		e-Service ☐	
Fax ☐		Fax ☐			
Mail ☐		Mail ☐			
Courier ☐		Courier ☐			
e-mail ☐		e-mail ☐			
e-Service ☐		e-Service ☐			

Information to be included on Report and Invoice		Rush Please contact the laboratory to confirm rush dates and times before submitting samples.		Sample Custody (Please Print)	
Project ID:		Upon filling out this section, client accepts that surcharges will be attached to this analysis		Sampled by: D. WEDMAN	
Project Name: SILVER HART		RUSH All analysis As indicated		Company CMC Signature DW	
Project Location: YUKON		required on: ☐ or ☐		I authorize Bodycote to proceed with the work indicated on this form: DW	
Legal Location:		Date Required: _____		Date: SEPT 30/09 Initial: DW	
PO#:		Signature: _____		Received by: EM Sample Temp. _____ °C	
Proj. Acct. Code:		Bodycote Authorization: _____		Waybill # OCT 2nd 11:30	
Agreement ID:				Company Exova Time _____	

Special Instructions / Comments		FOR LAB USE ONLY	
NOTE: DISSOLVED METALS SAMPLE HAS NOT BEEN FILTERED. PLEASE FILTER.		Condition of containers / coolers upon arrival at lab	

Please indicate which regulations you are required to meet:

	Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method	Enter tests above (✓ relevant samples below)					
							ROUTINE	TOXIC	HEAVY METALS	DISSOLVED METALS		
1	CMC-M1	SILVER HART	-	09/29/09			5	✓	✓	✓	✓	
2	CMC-M2	"	-	09/29/09			5	✓	✓	✓	✓	
3	CMC-11	"	-	09/29/09			5	✓	✓	✓	✓	
4	CMC-OC2	"	-	09/30/09			5	✓	✓	✓	✓	
5	CMC-7	"	-	09/30/09			5	✓	✓	✓	✓	
6			-									
7			-									
8			-									
9			-									
10			-									
11			-									
12			-									
13			-									
14			-									
15			-									

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Page ____ of ____



NORWEST LABS

LOT# 491618

Control Number E 79195

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for your nearest Norwest location and proper sampling protocol

Billing Address:		Report To:	Copy of Report To:	Copy of invoice:
Company: <i>Access Consulting Group</i>		Company:	Company:	Mail invoice to this
Address: <i>#3 1st Industrial Rd. Whitehorse, YT</i>		QA/QC Report ☒	Address: <i>rob@accessconsulting.ca</i>	address for approval ☐
Attention: <i>Paul</i>		Report Result:	Attention:	Report Result:
Phone: <i>867-668-6463</i>		Fax ☐	Phone:	Fax ☐
Fax:		Mail ☐	Fax:	Mail ☐
Cell:		Courier ☐	Cell:	Courier ☐
e-mail: <i>paul@accessconsulting.ca</i>		e-mail ☒	e-mail:	e-mail ☐

Information to be included on Report and Invoice

Project ID: *CMC-06-01*
Project Name: *CMC Metals*
Project Location: *CMC Property*
Legal Location:
PO#:
Proj. Acct. Code:
Agreement ID:

RUSH

Please contact the laboratory to confirm rush dates and times before submitting samples.

Upon filling out this section, client accepts that surcharges will be attached to this analysis
Required on: all analyses or as indicated

☐ or ☐

Date Required: _____
Signature: _____
Norwest Authorization: _____

Sample Custody (Please Print)

Sampled by: *PIC/CT* Date: *Sept 6-7*
Company: *ACS* Signature: *[Signature]*

Relinquished by:

Company: _____ Date: _____

Waybill number:

Received by:

Company: _____

Processed by:

Norwest Labs

RECEIVED

SEP 9 2006

6:00 10:45

Special Instructions / Comments

	Sample Identification	Location	Depth	Date / Time Sampled	Matrix	Sampling Method	Number of Containers									
							Rawline	Nutrients	TIC/DOC	TOC	Total Metals	Dissolved metals	Metals (sediments)	Cyanide		
1	CMC-01		—	Sept 6	Sediment	Grab	✓	✓	✓	✓	✓	✓	✓	✓		
2	CMC-02		—	↓	Sed/water		✓	✓	✓	✓	✓	✓	✓	✓		
3	CMC-03		—	↓	Sed/water		✓	✓	✓	✓	✓	✓	✓	✓		
4	CMC-04		—	Sept 7	Water		✓	✓	✓	✓	✓	✓	✓	✓		
5	CMC-05		—	Sept 6	"		✓	✓	✓	✓	✓	✓	✓	✓		
6	CMC-06		—	↓	Sed/water		✓	✓	✓	✓	✓	✓	✓	✓		
7	CMC-06-01		—	Sept 7	Sed/water		✓	✓	✓	✓	✓	✓	✓	✓		
8	CMC-06-02		—	↓	"		✓	✓	✓	✓	✓	✓	✓	✓		
9	CMC-06-03		—	↓	Water		✓	✓	✓	✓	✓	✓	✓	✓		
10	CMC-M1		—	↓	Sed/water		✓	✓	✓	✓	✓	✓	✓	✓		
11	CMC-M28		—	↓	↓		✓	✓	✓	✓	✓	✓	✓	✓		
12	CMC-06-17		—	↓	↓		✓	✓	✓	✓	✓	✓	✓	✓		
13	CMC-10		—	Sept 6	↓		✓	✓	✓	✓	✓	✓	✓	✓		
14	CMC-03a		—													

NOTE: All hazardous samples must be labelled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page 1 of 2

NWL008 (0-2000)



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Contact	Company	Address												
Paul Inglis Web Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: paul@accessconsulting.ca												
<table><tr><th>Copies</th><th>Delivery Strategy</th><th>Format</th></tr><tr><td>1</td><td>Post</td><td></td></tr><tr><td>A 1</td><td>Email - Single Report</td><td>PDF</td></tr><tr><td>A 1</td><td>Email - Single Report</td><td>Standard List</td></tr></table>		Copies	Delivery Strategy	Format	1	Post		A 1	Email - Single Report	PDF	A 1	Email - Single Report	Standard List	
Copies	Delivery Strategy	Format												
1	Post													
A 1	Email - Single Report	PDF												
A 1	Email - Single Report	Standard List												
Scott Keesey Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca												
<table><tr><th>Copies</th><th>Delivery Strategy</th><th>Format</th></tr><tr><td>A 1</td><td>Email - Single Report</td><td>PDF</td></tr><tr><td>A 1</td><td>Email - Single Report</td><td>Standard List</td></tr></table>		Copies	Delivery Strategy	Format	A 1	Email - Single Report	PDF	A 1	Email - Single Report	Standard List				
Copies	Delivery Strategy	Format												
A 1	Email - Single Report	PDF												
A 1	Email - Single Report	Standard List												

NOTE: **P** indicates a preliminary report is required

NOTE: **A** indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Lot Notes:

Some MS total metal results were less than dissolved metal results for sample 491618-1 to 15. The results were verified and are within the method uncertainty. Sept 15/06

Some trace total metal results were less than dissolved metal results for sample 491618-2,8,9,11,12. The results were confirmed. BM september 15, 2006

Some trace total metal results were less than dissolved metal results for samples 491618-1,3-7,10,13-15. The results were verified and are within the method uncertainty. BM september 15, 2006

Sample Notes:

2006626 Sample received unpreserved for TP analysis.

Batch Notes:

Method Notes:

Method Result Notes:



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Reports associated with this Lot

Id/Format/Reported Date

902063 Env2QC 3 Smp & DL

Id/Format/Reported Date

Id/Format/Reported Date

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.



Sample Custody

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Sample Disposal Date: Oct 15, 2006

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ **Extend Sample Storage Until** _____ **(MM/DD/YY)**

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ **Return Sample, collect, to the address below via:**

_____ Greyhound
_____ Loomis
_____ Purolator
_____ Other (Specify) _____

Name: _____
Company: _____
Address: _____

Phone: _____
Fax: _____
Signature: _____

If no other arrangements have been made, samples will be disposed of on Oct 15, 2006.



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
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		NWL Number	491618-1	491618-2	491618-3	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-01	CMC-02	CMC-03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.11	0.08	0.08	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.01	0.01	0.01	0.01
Organic Carbon	Total Nonpurgeable	mg/L	2.3	2.5	3.4	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	1.5	1.6	1.6	0.5
Inorganic carbon	Total	mg/L	11.6	11.1	11.8	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.73	3.63	4.06	0.05
Sulfur	Dissolved	mg/L	2.4	1.6	2.8	0.3
Aluminum	Dissolved	mg/L	0.011	0.01	0.018	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0002	0.0011	<0.0002	0.0002
Barium	Dissolved	mg/L	0.009	0.004	0.004	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	0.003	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	0.00002	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0001	0.0013	0.0002	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.002	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.097	0.055	0.088	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	0.0011	0.0005
Uranium	Dissolved	mg/L	0.0009	<0.0005	0.0005	0.0005
Vanadium	Dissolved	mg/L	0.0004	0.0003	0.0002	0.0001
Zinc	Dissolved	mg/L	0.001	0.002	0.004	0.001



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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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		NWL Number	491618-1	491618-2	491618-3	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-01	CMC-02	CMC-03	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	17	15	18	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	1	0.8	0.8	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	1.0	<0.8	0.4
Silicon	Total	mg/L	2.87	3.66	4.13	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	2.3	1	2.6	0.3
Aluminum	Total	mg/L	0.02	0.01	0.021	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.009	0.004	0.004	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	0.002	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	<0.002	<0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.099	0.053	0.082	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	0.001	<0.001	<0.001	0.0005
Uranium	Total	mg/L	0.001	<0.001	<0.001	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	<0.002	<0.002	0.003	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
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Report Number: 902063

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		NWL Number	491618-1	491618-2	491618-3	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-01	CMC-02	CMC-03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Turbidity		NTU	0.4	0.2	0.3	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
Electrical Conductivity	Water	uS/cm	105	97	112	1
Calcium	Dissolved	mg/L	17.5	16.2	19.4	0.2
Magnesium	Dissolved	mg/L	1.1	0.9	0.9	0.1
Sodium	Dissolved	mg/L	1.5	1.2	1.2	0.4
Potassium	Dissolved	mg/L	0.5	1	0.4	0.4
Iron	Dissolved	mg/L	0.03	0.02	0.02	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Hardness	Dissolved as CaCO3	mg/L	48.2	44	52	



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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
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Project
ID: CMC-06-01
Name: CMC Metals
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LSD:
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NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
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Report Number: 902063

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		NWL Number	491618-4	491618-5	491618-6	
		Sample Date	Sep 07, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-04	CMC-05	CMC-06	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.08	0.06	0.07	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Organic Carbon	Total Nonpurgeable	mg/L	2.4	2.3	2.3	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	1.6	1.9	1.9	0.5
Inorganic carbon	Total	mg/L	11.4	11.3	10.6	0.5
Cyanide	Total	mg/L	0.001	0.001	0.002	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.75	2.71	2.50	0.05
Sulfur	Dissolved	mg/L	2.3	2.2	1.7	0.3
Aluminum	Dissolved	mg/L	0.012	0.011	0.008	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0002	0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.009	0.008	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0002	0.0005	0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.099	0.104	0.120	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0009	0.0009	0.0010	0.0005
Vanadium	Dissolved	mg/L	0.0003	0.0003	0.0003	0.0001
Zinc	Dissolved	mg/L	0.002	0.002	0.004	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
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		NWL Number	491618-4	491618-5	491618-6	
		Sample Date	Sep 07, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-04	CMC-05	CMC-06	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	17	16	14	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	1	1	0.9	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	2.97	2.82	2.64	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	2.3	2.2	2	0.3
Aluminum	Total	mg/L	0.023	0.02	0.02	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.009	0.008	0.007	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	<0.002	<0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.10	0.10	0.12	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	0.001	0.001	0.0005
Vanadium	Total	mg/L	0.0002	0.0002	0.0002	0.0001
Zinc	Total	mg/L	<0.002	<0.002	<0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



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		NWL Number	491618-4	491618-5	491618-6	
		Sample Date	Sep 07, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-04	CMC-05	CMC-06	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Turbidity		NTU	0.4	0.5	0.4	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
Electrical Conductivity	Water	uS/cm	106	105	94	1
Calcium	Dissolved	mg/L	17.8	17.2	15.5	0.2
Magnesium	Dissolved	mg/L	1.1	1.1	1.0	0.1
Sodium	Dissolved	mg/L	1.4	1.4	1.4	0.4
Potassium	Dissolved	mg/L	0.6	0.5	<0.4	0.4
Iron	Dissolved	mg/L	<0.01	0.03	0.05	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.02	0.02	0.04	0.02
Hardness	Dissolved as CaCO3	mg/L	49.0	47.4	43.0	



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		NWL Number	491618-7	491618-8	491618-9	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-U2	CMC-OC-02	CMC-OC-03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.13	0.10	0.10	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Organic Carbon	Total Nonpurgeable	mg/L	4.9	3.4	3.1	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	4.5	2.3	2.2	0.5
Inorganic carbon	Total	mg/L	7.7	5.5	5.8	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	3.27	2.64	2.61	0.05
Sulfur	Dissolved	mg/L	5.3	1	1.1	0.3
Aluminum	Dissolved	mg/L	0.030	0.022	0.026	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0003	0.0002
Barium	Dissolved	mg/L	0.006	0.005	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	0.0038	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.005	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	0.00004	0.00001
Chromium	Dissolved	mg/L	0.0006	<0.0005	0.0020	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	0.0001	0.0001
Copper	Dissolved	mg/L	0.001	<0.001	0.001	0.001
Lead	Dissolved	mg/L	0.0002	0.0004	0.0003	0.0001
Lithium	Dissolved	mg/L	0.001	<0.001	0.002	0.001
Molybdenum	Dissolved	mg/L	0.003	<0.001	0.002	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0011	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	0.0003	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.146	0.075	0.081	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0006	<0.0005	0.0008	0.0005
Uranium	Dissolved	mg/L	0.0016	0.0008	0.0014	0.0005
Vanadium	Dissolved	mg/L	0.0002	0.0002	0.0003	0.0001
Zinc	Dissolved	mg/L	0.007	0.002	0.003	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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		NWL Number	491618-7	491618-8	491618-9	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-U2	CMC-OC-02	CMC-OC-03	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	15	6.5	7.0	0.2
Iron	Total	mg/L	0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	1	0.5	0.6	0.1
Manganese	Total	mg/L	0.10	<0.01	0.024	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	3.70	2.86	2.93	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	5.1	0.9	1	0.3
Aluminum	Total	mg/L	0.098	0.028	0.058	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.008	0.005	0.007	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	0.0003	<0.0002	0.0003	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	0.003	<0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.15	0.071	0.076	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	0.0028	<0.001	0.002	0.0005
Uranium	Total	mg/L	0.0021	<0.001	0.001	0.0005
Vanadium	Total	mg/L	0.0003	<0.0002	0.0002	0.0001
Zinc	Total	mg/L	0.008	<0.002	<0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
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		NWL Number	491618-7	491618-8	491618-9	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-U2	CMC-OC-02	CMC-OC-03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Turbidity		NTU	0.5	0.5	1.0	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
Electrical Conductivity	Water	uS/cm	101	48	51	1
Calcium	Dissolved	mg/L	15.8	7.1	7.6	0.2
Magnesium	Dissolved	mg/L	1.1	0.7	0.7	0.1
Sodium	Dissolved	mg/L	1.5	1.4	1.6	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4
Iron	Dissolved	mg/L	0.09	0.03	0.04	0.01
Manganese	Dissolved	mg/L	0.039	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Hardness	Dissolved as CaCO ₃	mg/L	44.2	20	22	



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Name: CMC Metals
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		NWL Number	491618-10	491618-11	491618-12	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-M1	CMC-M2	CMC-07	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.11	0.09	0.09	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Organic Carbon	Total Nonpurgeable	mg/L	4.5	5.9	2.2	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	3.9	3.3	2.0	0.5
Inorganic carbon	Total	mg/L	3.8	4.5	4.9	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	3.34	3.30	2.36	0.05
Sulfur	Dissolved	mg/L	1.3	1.5	0.7	0.3
Aluminum	Dissolved	mg/L	0.084	0.051	0.019	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.007	0.007	0.004	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	0.001	0.0006	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0002	0.0002	0.0003	0.0001
Lithium	Dissolved	mg/L	0.001	0.001	0.001	0.001
Molybdenum	Dissolved	mg/L	0.001	0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.066	0.076	0.064	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0016	0.0009	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0007	0.0007	0.0011	0.0005
Vanadium	Dissolved	mg/L	0.0003	0.0002	0.0002	0.0001
Zinc	Dissolved	mg/L	0.003	0.003	0.003	0.001



Analytical Report

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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
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Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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		NWL Number	491618-10	491618-11	491618-12	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-M1	CMC-M2	CMC-07	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	5.8	6.5	5.9	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	0.4	0.5	0.5	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	3.80	3.57	2.50	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	1	1	0.6	0.3
Aluminum	Total	mg/L	0.11	0.065	0.023	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.008	0.007	0.004	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	0.0002	0.0002	0.0006	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	<0.002	<0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.065	0.072	0.060	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	0.0023	0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	<0.001	0.001	0.0005
Vanadium	Total	mg/L	0.0003	0.0002	<0.0002	0.0001
Zinc	Total	mg/L	<0.002	<0.002	<0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
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NWL Lot ID: 491618
Control Number: E 79195
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Report Number: 902063

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		NWL Number	491618-10	491618-11	491618-12	
		Sample Date	Sep 07, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-M1	CMC-M2	CMC-07	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Turbidity		NTU	0.8	0.5	0.6	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
Electrical Conductivity	Water	uS/cm	41	48	45	1
Calcium	Dissolved	mg/L	5.9	6.9	6.5	0.2
Magnesium	Dissolved	mg/L	0.5	0.6	0.6	0.1
Sodium	Dissolved	mg/L	1.5	1.5	1.3	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4
Iron	Dissolved	mg/L	0.07	0.03	0.02	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Hardness	Dissolved as CaCO3	mg/L	17	20	19	



Analytical Report

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Report Number: 902063

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		NWL Number	491618-13	491618-14	491618-15	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 07, 2006	
		Sample Description	CMC-10	CMC-03a	CMC-11	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.06	0.08	<0.06	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	<0.01	0.01	0.01	0.01
Organic Carbon	Total Nonpurgeable	mg/L	3.4	3.8	4.2	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	2.0	3.1	<0.5	0.5
Inorganic carbon	Total	mg/L	10.6	11.4	37.7	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	3.30	4.21	4.10	0.05
Sulfur	Dissolved	mg/L	4.7	3.7	40.5	0.3
Aluminum	Dissolved	mg/L	0.014	0.016	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0045	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0165	0.0002
Barium	Dissolved	mg/L	0.005	0.005	0.010	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.004	0.002
Cadmium	Dissolved	mg/L	0.00001	0.00001	0.00628	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	0.0002	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	0.0001	0.0014	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.011	0.001
Molybdenum	Dissolved	mg/L	0.001	0.003	0.005	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0039	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.092	0.120	0.410	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	0.0020	0.0005
Uranium	Dissolved	mg/L	0.0007	<0.0005	0.0217	0.0005
Vanadium	Dissolved	mg/L	0.0003	0.0003	0.0005	0.0001
Zinc	Dissolved	mg/L	0.002	0.004	5.30	0.001



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		NWL Number	491618-13	491618-14	491618-15	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 07, 2006	
		Sample Description	CMC-10	CMC-03a	CMC-11	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	19	18	74.2	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	0.8	1	14	0.1
Manganese	Total	mg/L	<0.01	<0.01	0.074	0.005
Potassium	Total	mg/L	<0.8	<0.8	0.9	0.4
Silicon	Total	mg/L	3.64	4.46	4.47	0.05
Sodium	Total	mg/L	1	1	2	0.4
Sulfur	Total	mg/L	4.6	3.5	39.5	0.3
Aluminum	Total	mg/L	0.020	0.024	0.01	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	0.0044	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	0.015	0.0002
Barium	Total	mg/L	0.005	0.006	0.01	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	0.00654	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	0.002	0.0001
Lithium	Total	mg/L	<0.002	0.002	0.01	0.001
Molybdenum	Total	mg/L	<0.002	0.003	0.004	0.001
Nickel	Total	mg/L	<0.001	<0.001	0.0039	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.092	0.11	0.406	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	<0.001	<0.001	0.0022	0.0005
Uranium	Total	mg/L	<0.001	<0.001	0.0247	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	<0.002	0.003	4.80	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
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		NWL Number	491618-13	491618-14	491618-15	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 07, 2006	
		Sample Description	CMC-10	CMC-03a	CMC-11	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Turbidity		NTU	0.2	0.5	0.4	0.1
Solids	Total Suspended	mg/L	<2	<2	2	1
Routine Water						
Electrical Conductivity	Water	uS/cm	118	116	517	1
Calcium	Dissolved	mg/L	20.1	19.2	78.1	0.2
Magnesium	Dissolved	mg/L	0.9	1.4	15.0	0.1
Sodium	Dissolved	mg/L	1.1	1.4	2.1	0.4
Potassium	Dissolved	mg/L	0.6	0.5	0.8	0.4
Iron	Dissolved	mg/L	0.02	0.02	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	0.082	0.005
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Hardness	Dissolved as CaCO3	mg/L	54	53.8	257	



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		NWL Number	491618-16	491618-17	491618-18	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 06, 2006	
		Sample Description	CMC-01	CMC-02	CMC-03	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	21600	16700	20300	1
Antimony	Strong Acid Extractable	ug/g	0.6	1.2	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	28.8	11.3	10.6	0.2
Barium	Strong Acid Extractable	ug/g	111	49.1	85.9	0.03
Beryllium	Strong Acid Extractable	ug/g	1.37	0.92	1.15	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	1.6	1.2	3.5	0.05
Calcium	Strong Acid Extractable	ug/g	3130	17200	12000	2
Chromium	Strong Acid Extractable	ug/g	26.9	62.9	73.8	0.04
Cobalt	Strong Acid Extractable	ug/g	11.1	14.6	8.71	0.05
Copper	Strong Acid Extractable	ug/g	28.9	83.0	48.7	0.05
Iron	Strong Acid Extractable	ug/g	37800	32500	29300	1
Lead	Strong Acid Extractable	ug/g	101	43.0	51.8	0.3
Lithium	Strong Acid Extractable	ug/g	59.8	46.7	57.8	0.1
Magnesium	Strong Acid Extractable	ug/g	6590	4750	4990	1
Manganese	Strong Acid Extractable	ug/g	641	614	425	0.3
Mercury	Strong Acid Extractable	ug/g	0.006	0.091	0.094	0.003
Molybdenum	Strong Acid Extractable	ug/g	1.4	5.63	7.54	0.05
Nickel	Strong Acid Extractable	ug/g	33.4	94.2	62.5	0.1
Phosphorus	Strong Acid Extractable	ug/g	299	1160	1180	0.5
Potassium	Strong Acid Extractable	ug/g	2020	1140	2520	5
Selenium	Strong Acid Extractable	ug/g	<0.3	5.0	1.5	0.3
Silicon	Strong Acid Extractable	ug/g	271	201	142	1
Silver	Strong Acid Extractable	ug/g	1.0	0.5	1.3	0.2
Sodium	Strong Acid Extractable	ug/g	170	148	252	1
Strontium	Strong Acid Extractable	ug/g	50.6	61.8	76.4	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	1.2	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	2.0	20.2	17.7	0.2
Titanium	Strong Acid Extractable	ug/g	434	121	184	0.05
Vanadium	Strong Acid Extractable	ug/g	41.6	18.7	28.3	0.1
Zinc	Strong Acid Extractable	ug/g	1140	208	571	0.1
Zirconium	Strong Acid Extractable	ug/g	2.0	2.0	1.7	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.2	7.2	7.1	0.5



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		NWL Number	491618-19	491618-20	491618-21	
		Sample Date	Sep 06, 2006	Sep 07, 2006	Sep 07, 2006	
		Sample Description	CMC-06	CMC-U2	CMC-OC-02	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	18800	17700	9830	1
Antimony	Strong Acid Extractable	ug/g	<0.5	0.7	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	8.6	4.0	2.2	0.2
Barium	Strong Acid Extractable	ug/g	96.0	181	64.3	0.03
Beryllium	Strong Acid Extractable	ug/g	1.75	1.14	0.71	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.82	2.7	0.4	0.05
Calcium	Strong Acid Extractable	ug/g	10800	5010	3920	2
Chromium	Strong Acid Extractable	ug/g	23.4	15.5	11.0	0.04
Cobalt	Strong Acid Extractable	ug/g	9.08	8.32	2.4	0.05
Copper	Strong Acid Extractable	ug/g	33.0	36.6	13.3	0.05
Iron	Strong Acid Extractable	ug/g	25700	27600	10500	1
Lead	Strong Acid Extractable	ug/g	32.7	21.8	14.1	0.3
Lithium	Strong Acid Extractable	ug/g	59.2	51.2	34.6	0.1
Magnesium	Strong Acid Extractable	ug/g	4340	3530	2690	1
Manganese	Strong Acid Extractable	ug/g	356	958	147	0.3
Mercury	Strong Acid Extractable	ug/g	0.088	0.046	0.029	0.003
Molybdenum	Strong Acid Extractable	ug/g	1.5	18.4	1.5	0.05
Nickel	Strong Acid Extractable	ug/g	21.0	13.8	8.22	0.1
Phosphorus	Strong Acid Extractable	ug/g	912	999	909	0.5
Potassium	Strong Acid Extractable	ug/g	1380	1990	975	5
Selenium	Strong Acid Extractable	ug/g	1.4	<0.3	0.3	0.3
Silicon	Strong Acid Extractable	ug/g	206	289	64	1
Silver	Strong Acid Extractable	ug/g	0.4	0.5	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	161	126	91	1
Strontium	Strong Acid Extractable	ug/g	98.1	61.0	38.8	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	4.2	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.9	1.2	1.3	0.2
Titanium	Strong Acid Extractable	ug/g	100	318	242	0.05
Vanadium	Strong Acid Extractable	ug/g	24.8	35.4	20.0	0.1
Zinc	Strong Acid Extractable	ug/g	255	549	95.2	0.1
Zirconium	Strong Acid Extractable	ug/g	2.0	1.9	1.1	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	6.9	6.5	6.5	0.5



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		NWL Number		491618-22	491618-23	491618-24
		Sample Date		Sep 07, 2006	Sep 07, 2006	Sep 07, 2006
		Sample Description		CMC-M1	CMC-M2	CMC-07
		Matrix		Soil	Soil	Soil
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	14100	14400	8740	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	3.6	4.4	1.7	0.2
Barium	Strong Acid Extractable	ug/g	95.7	133	77.5	0.03
Beryllium	Strong Acid Extractable	ug/g	1.30	1.00	1.09	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.93	1.0	0.59	0.05
Calcium	Strong Acid Extractable	ug/g	5370	7980	10900	2
Chromium	Strong Acid Extractable	ug/g	32.4	32.2	16.8	0.04
Cobalt	Strong Acid Extractable	ug/g	4.3	5.06	2.0	0.05
Copper	Strong Acid Extractable	ug/g	27.3	19.8	26.5	0.05
Iron	Strong Acid Extractable	ug/g	20500	22100	11700	1
Lead	Strong Acid Extractable	ug/g	30.2	41.3	18.4	0.3
Lithium	Strong Acid Extractable	ug/g	42.2	53.6	23.5	0.1
Magnesium	Strong Acid Extractable	ug/g	3420	4080	1890	1
Manganese	Strong Acid Extractable	ug/g	562	884	279	0.3
Mercury	Strong Acid Extractable	ug/g	0.041	0.050	0.057	0.003
Molybdenum	Strong Acid Extractable	ug/g	4.1	4.7	3.9	0.05
Nickel	Strong Acid Extractable	ug/g	24.6	22.4	11.0	0.1
Phosphorus	Strong Acid Extractable	ug/g	626	956	615	0.5
Potassium	Strong Acid Extractable	ug/g	1780	2900	1050	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	67	54	36	1
Silver	Strong Acid Extractable	ug/g	0.3	0.8	0.2	0.2
Sodium	Strong Acid Extractable	ug/g	108	159	93	1
Strontium	Strong Acid Extractable	ug/g	62.1	82.0	120	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	9.3	3.8	2.4	0.2
Titanium	Strong Acid Extractable	ug/g	278	307	217	0.05
Vanadium	Strong Acid Extractable	ug/g	33.3	35.2	22.7	0.1
Zinc	Strong Acid Extractable	ug/g	523	254	70.6	0.1
Zirconium	Strong Acid Extractable	ug/g	0.96	1.6	1.4	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	6.6	6.4	6.4	0.5



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		NWL Number	491618-25	491618-26	491618-27	
		Sample Date	Sep 06, 2006	Sep 06, 2006	Sep 07, 2006	
		Sample Description	CMC-10	CMC-03a	CMC-11	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	19100	18600	18700	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	10.8	11.8	24.8	0.2
Barium	Strong Acid Extractable	ug/g	76.5	99.1	186	0.03
Beryllium	Strong Acid Extractable	ug/g	1.10	0.89	2.47	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	1.1	2.4	1.4	0.05
Calcium	Strong Acid Extractable	ug/g	8280	8760	13300	2
Chromium	Strong Acid Extractable	ug/g	30.5	91.4	77.2	0.04
Cobalt	Strong Acid Extractable	ug/g	8.40	10.3	12.1	0.05
Copper	Strong Acid Extractable	ug/g	29.8	60.8	42.2	0.05
Iron	Strong Acid Extractable	ug/g	27700	30800	36100	1
Lead	Strong Acid Extractable	ug/g	24.1	72.6	72.0	0.3
Lithium	Strong Acid Extractable	ug/g	60.9	61.3	45.6	0.1
Magnesium	Strong Acid Extractable	ug/g	5320	5690	3190	1
Manganese	Strong Acid Extractable	ug/g	683	1010	391	0.3
Mercury	Strong Acid Extractable	ug/g	0.044	0.052	0.081	0.003
Molybdenum	Strong Acid Extractable	ug/g	2.9	11.6	6.91	0.05
Nickel	Strong Acid Extractable	ug/g	30.5	72.4	59.3	0.1
Phosphorus	Strong Acid Extractable	ug/g	868	855	1210	0.5
Potassium	Strong Acid Extractable	ug/g	2440	2180	2180	5
Selenium	Strong Acid Extractable	ug/g	<0.3	0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	72	77	625	1
Silver	Strong Acid Extractable	ug/g	0.4	0.6	0.2	0.2
Sodium	Strong Acid Extractable	ug/g	191	158	257	1
Strontium	Strong Acid Extractable	ug/g	56.7	64.1	110	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	4.3	0.3
Tin	Strong Acid Extractable	ug/g	1.5	20.9	33.4	0.2
Titanium	Strong Acid Extractable	ug/g	303	219	131	0.05
Vanadium	Strong Acid Extractable	ug/g	30.8	29.1	39.6	0.1
Zinc	Strong Acid Extractable	ug/g	317	496	161	0.1
Zirconium	Strong Acid Extractable	ug/g	1.2	1.4	2.6	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.0	7.0	7.2	0.5



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Approved by:

Walter Brandl
Operations Manager - Surrey



Quality Control

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Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mq/L	<0.05	0.00	-0.08	0.08	✓
Nitrogen	mq/L	<0.06	0.00	-0.06	0.06	✓
Phosphorus	mq/L	<0.05	0.00	-0.10	0.10	✓
Orthophosphate-P	mq/L	<0.01	0.00	-0.05	0.05	✓
Organic Carbon	mq/L	<0.5	0.0	-0.5	0.5	✓
Inorganic carbon	mq/L	<0.5	0.0	-0.5	0.5	✓
Cyanide	mq/L	<0.001	0.000	-0.005	0.005	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 13, 2006
Acquired By: Gordon Grensman

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mq/L	0.12	0.12	9.99	0.10	✓
Nitrogen	mg/L	3.14	3.05	9.99	0.12	✓
Phosphorus	mq/L	<0.05	<0.05	9.99	0.20	✓
Orthophosphate-P	mg/L	0.01	0.01	9.99	0.05	✓
Organic Carbon	mq/L	2.2	2.3	10.0	1.0	✓
Inorganic carbon	mq/L	4.9	4.9	10.0	1.0	✓
Cyanide	mq/L	0.001	0.001	9.990	0.002	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 13, 2006
Acquired By: Gordon Grensman



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Inorganic Nonmetallic Parameters (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mq/L	3.17	2.99	2.59	3.39	✓
Nitrogen	mq/L	120	118.00	105.64	130.36	✓
Phosphorus	mq/L	7.97	8.00	7.20	8.80	✓
Organic Carbon	mq/L	121	116.0	97.6	134.5	✓
Inorganic carbon	mq/L	101	111.0	92.0	130.0	✓
Cyanide	mq/L	0.076	0.076	0.066	0.086	✓
Material Used:	Water High					
Date Acquired:	Sep 13, 2006					
Acquired By:	Gordon Grensman					
Ammonium - N	mg/L	0.83	0.79	0.66	0.91	✓
Nitrogen	mg/L	13.8	14.90	13.53	16.27	✓
Phosphorus	mg/L	1.99	2.00	1.80	2.20	✓
Orthophosphate-P	mg/L	0.42	0.41	0.35	0.46	✓
Organic Carbon	mg/L	14.6	15.0	13.2	16.8	✓
Inorganic carbon	mg/L	16.2	15.1	12.6	17.6	✓
Cyanide	mg/L	0.016	0.016	0.014	0.018	✓
Material Used:	Water Low					
Date Acquired:	Sep 13, 2006					
Acquired By:	Gordon Grensman					
Nitrogen	mq/L	1.10	1.03	0.90	1.16	✓
Orthophosphate-P	mq/L	0.08	0.08	0.07	0.09	✓
Organic Carbon	mq/L	2.9	3.0	2.4	3.7	✓
Inorganic carbon	mq/L	3.4	3.2	2.7	3.8	✓
Material Used:	Water Trace					
Date Acquired:	Sep 14, 2006					
Acquired By:	Wilailuk Somiit					



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Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mq/L	<0.05	0.00	-0.05	0.05	✓
Sulfur	mq/L	<0.3	0.0	-0.3	0.3	✓
Aluminum	uq/L	<5	0	-5	5	✓
Antimony	uq/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	uq/L	<0.2	0.0	-0.2	0.2	✓
Barium	uq/L	<1	0	-1	1	✓
Beryllium	uq/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	uq/L	<0.5	0.0	-0.5	0.5	✓
Boron	uq/L	<2	0	-2	2	✓
Cadmium	uq/L	<0.01	0.00	-0.01	0.01	✓
Chromium	uq/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	uq/L	<0.1	0.0	-0.1	0.1	✓
Copper	uq/L	<1	0	-1	1	✓
Lead	uq/L	<0.1	0.0	-0.1	0.1	✓
Lithium	uq/L	<1	0	-1	1	✓
Molybdenum	uq/L	<1	0	-1	1	✓
Nickel	uq/L	<0.5	0.0	-0.5	0.5	✓
Selenium	uq/L	<0.2	0.0	-0.2	0.2	✓
Silver	uq/L	<0.1	0.0	-0.1	0.1	✓
Strontium	uq/L	<1	0	-1	1	✓
Thallium	uq/L	<0.05	0.00	-0.05	0.05	✓
Tin	uq/L	<1	0	-1	1	✓
Titanium	uq/L	<0.5	0.0	-0.5	0.5	✓
Uranium	uq/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	uq/L	<0.1	0.0	-0.1	0.1	✓
Zinc	uq/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 24 of 42

Metals Dissolved (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mq/L	2.71	2.62	9.99	0.01	✓
Sulfur	mq/L	83.0	83.0	10.0	0.1	✓
Aluminum	uq/L	12	12	10	11	✓
Antimony	uq/L	<0.2	<0.2	10.0	0.4	✓
Arsenic	uq/L	0.4	0.4	10.0	0.4	✓
Barium	uq/L	9	8	10	2	✓
Beryllium	uq/L	<0.1	<0.1	10.0	0.2	✓
Bismuth	uq/L	<0.5	<0.5	10.0	1.1	✓
Boron	ug/L	5	5	10	4	✓
Cadmium	uq/L	0.01	<0.01	9.99	0.02	✓
Chromium	ug/L	0.8	0.9	10.0	1.1	✓
Cobalt	uq/L	<0.1	<0.1	10.0	0.2	✓
Copper	ug/L	4	4	10	2	✓
Lead	uq/L	0.2	0.2	10.0	0.2	✓
Lithium	ug/L	2	2	10	2	✓
Molybdenum	uq/L	2	2	10	2	✓
Nickel	uq/L	1	0.9	10.0	1.1	✓
Selenium	uq/L	<0.2	<0.2	10.0	0.4	✓
Silver	uq/L	<0.1	<0.1	10.0	0.2	✓
Strontium	uq/L	99	99	10	2	✓
Thallium	uq/L	<0.05	<0.05	9.99	0.11	✓
Tin	uq/L	<1	<1	10	2	✓
Titanium	uq/L	1.0	0.9	10.0	1.1	✓
Uranium	ug/L	1.1	1.1	10.0	1.1	✓
Vanadium	uq/L	1.8	1.8	10.0	0.2	✓
Zinc	ug/L	2	2	10	2	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 25 of 42

Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mq/L	24.2	25.00	22.50	27.50	✓
Sulfur	mq/L	50.1	50.0	45.0	55.0	✓
Material Used:	Metals High					
Date Acquired:	Sep 14, 2006					
Acquired By:	Alvin Kwan					
Silicon	mg/L	0.46	0.50	0.45	0.55	✓
Sulfur	mg/L	1	1.0	0.9	1.2	✓
Aluminum	ug/L	934	1000	850	1150	✓
Antimony	ug/L	42.7	40.0	34.0	46.0	✓
Arsenic	ug/L	42.1	40.0	34.0	46.0	✓
Barium	ug/L	196	200	170	230	✓
Beryllium	ug/L	20.3	20.0	17.0	23.0	✓
Bismuth	ug/L	97.2	100.0	85.0	115.0	✓
Boron	ug/L	412	400	340	460	✓
Cadmium	ug/L	2.19	2.00	1.70	2.30	✓
Chromium	ug/L	98.9	100.0	85.0	115.0	✓
Cobalt	ug/L	20.5	20.0	17.0	23.0	✓
Copper	ug/L	200	200	170	230	✓
Lead	ug/L	20.4	20.0	17.0	23.0	✓
Lithium	ug/L	202	200	170	230	✓
Molybdenum	ug/L	200	200	170	230	✓
Nickel	ug/L	97.2	100.0	85.0	115.0	✓
Selenium	ug/L	41.3	40.0	34.0	46.0	✓
Silver	ug/L	21.1	20.0	17.0	23.0	✓
Strontium	ug/L	201	200	170	230	✓
Thallium	ug/L	9.92	10.00	8.50	11.50	✓
Tin	ug/L	194	200	170	230	✓
Titanium	ug/L	104	100.0	85.0	115.0	✓
Uranium	ug/L	92.8	100.0	85.0	115.0	✓
Vanadium	ug/L	19.3	20.0	17.0	23.0	✓
Zinc	ug/L	205	200	170	230	✓
Material Used:	Metals Low					
Date Acquired:	Sep 14, 2006					
Acquired By:	Alexsandra Robert					



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 26 of 42

Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	55	50	43	58	✓
Antimony	uq/L	2.2	2.0	1.7	2.3	✓
Arsenic	uq/L	2.1	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.1	1.0	0.9	1.2	✓
Bismuth	uq/L	5.3	5.0	4.3	5.8	✓
Boron	uq/L	21	20	17	23	✓
Cadmium	uq/L	0.10	0.10	0.09	0.12	✓
Chromium	uq/L	5.1	5.0	4.3	5.8	✓
Cobalt	uq/L	1.1	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.1	1.0	0.9	1.2	✓
Lithium	uq/L	10	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	5.2	5.0	4.3	5.8	✓
Selenium	uq/L	2.1	2.0	1.7	2.3	✓
Silver	uq/L	1.1	1.0	0.9	1.2	✓
Strontium	uq/L	11	10	9	12	✓
Thallium	uq/L	0.54	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.2	5.0	4.3	5.8	✓
Uranium	uq/L	5.4	5.0	4.3	5.8	✓
Vanadium	uq/L	1.1	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓

Material Used: Metals Trace
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Strong Acid Digestion

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	<1	0	-3	3	✓
Antimony	uq/q	<0.5	0.0	0.0	0.0	✓
Arsenic	uq/q	<0.2	0.0	0.0	0.0	✓
Barium	uq/q	<0.03	0.00	-0.03	0.03	✓
Beryllium	uq/q	<0.01	0.00	0.00	0.00	✓
Bismuth	uq/q	<0.5	0.0	0.0	0.0	✓
Cadmium	uq/q	<0.05	0.00	0.00	0.00	✓
Calcium	uq/q	9	0	-6	6	✓
Chromium	uq/q	<0.04	0.00	0.00	0.00	✓
Cobalt	uq/q	<0.05	0.00	0.00	0.00	✓
Copper	uq/q	<0.05	0.00	0.00	0.00	✓
Iron	uq/q	<1	0	-6	6	✓
Lead	uq/q	<0.3	0.0	0.0	0.0	✓
Lithium	uq/q	<0.1	0.0	0.0	0.0	✓
Magnesium	uq/q	<1	0	0	0	✓
Manganese	uq/q	<0.3	0.0	-0.1	0.1	✓
Molybdenum	uq/q	<0.05	0.00	0.00	0.00	✓
Nickel	uq/q	<0.1	0.000	-0.003	0.003	✓
Phosphorus	uq/q	<0.5	0.0	-0.1	0.1	✓
Potassium	uq/q	<5	0	-1	1	✓
Selenium	uq/q	<0.3	0.0	0.0	0.0	✓
Silicon	uq/q	<1	0	0	0	✓
Silver	uq/q	<0.2	0.0	0.0	0.0	✓
Sodium	uq/q	<1	0	0	0	✓
Strontium	uq/q	<0.02	0.00	0.00	0.00	✓
Tin	uq/q	<0.2	0.0	0.0	0.0	✓
Titanium	uq/q	<0.05	0.00	0.00	0.00	✓
Vanadium	uq/q	<0.1	0.0	0.0	0.0	✓
Zinc	uq/q	<0.1	0.0	0.0	0.0	✓
Zirconium	uq/q	<0.05	0.00	0.00	0.00	✓

Material Used: Metals Blank - soils
Date Acquired: Sep 13, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 28 of 42

Metals Strong Acid Digestion (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	uq/q	14100	15400	30	1	✓
Antimony	uq/q	<0.5	<0.5	30.0	3.0	✓
Arsenic	uq/q	3.6	3.8	30.0	0.2	✓
Barium	uq/q	95.7	105	30.00	0.01	✓
Beryllium	uq/q	1.30	1.42	30.00	0.01	✓
Cadmium	uq/q	4.1	5.02	30.00	0.01	✓
Calcium	uq/q	5370	5930	30	0	✓
Chromium	uq/q	32.4	35.3	30.00	0.05	✓
Cobalt	ug/g	4.3	4.6	30.00	0.05	✓
Copper	uq/q	43.8	40.5	30.00	0.05	✓
Iron	ug/g	20500	21700	30	0	✓
Lead	uq/q	537	621	30.0	0.1	✓
Magnesium	ug/g	3420	3650	30	1	✓
Manganese	uq/q	562	632	30.0	0.0	✓
Molybdenum	ug/g	4.1	4.4	30.00	0.14	✓
Nickel	uq/q	34.7	34.3	30.000	0.050	✓
Phosphorus	uq/q	626	685	30.0	0.5	✓
Potassium	uq/q	1780	1930	30	10	✓
Selenium	uq/q	1.1	0.9	30.0	0.5	✓
Silver	uq/q	0.3	0.4	30.0	0.2	✓
Sodium	uq/q	108	118	30	1	✓
Strontium	uq/q	62.1	69.3	30.00	0.03	✓
Tin	uq/q	9.3	9.2	30.0	0.1	✓
Vanadium	ug/g	33.3	35.9	30.0	0.0	✓
Zinc	uq/q	523	562	30.0	0.1	✓
Zirconium	ug/g	0.96	1.1	30.00	0.02	✓

Material Used: Metals Int. Duplicate - soils
Date Acquired: Sep 13, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 29 of 42

Metals Strong Acid Digestion (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	18000	18000	14070	21930	✓
Antimony	uq/q	4.9	6.2	1.4	11.0	✓
Arsenic	uq/q	16.0	16.0	13.9	18.1	✓
Barium	uq/q	81.1	78.00	63.00	93.00	✓
Beryllium	uq/q	0.53	0.50	0.40	0.60	✓
Calcium	uq/q	2990	3050	2150	3950	✓
Chromium	uq/q	26.8	28.00	22.00	34.00	✓
Cobalt	uq/q	11.0	11.80	8.80	14.80	✓
Copper	uq/q	47.8	45.90	37.80	54.00	✓
Iron	uq/q	34500	31300	13300	49300	✓
Lead	uq/q	14.9	14.9	11.6	18.2	✓
Magnesium	uq/q	5660	5930	4730	7130	✓
Manganese	uq/q	1190	1170.0	1035.0	1305.0	✓
Mercury	uq/q	0.082	0.110	0.062	0.158	✓
Molybdenum	uq/q	0.70	1.00	0.40	1.60	✓
Nickel	uq/q	18.4	18.000	15.330	20.670	✓
Phosphorus	uq/q	805	782.0	563.0	1001.0	✓
Potassium	uq/q	686	617	227	1007	✓
Selenium	uq/q	<0.3	0.9	-1.2	2.9	✓
Silver	uq/q	0.2	0.2	0.0	0.3	✓
Sodium	uq/q	377	334	226	442	✓
Strontium	uq/q	10.7	11.70	8.70	14.70	✓
Thallium	uq/q	<0.3	0.7	-0.8	2.1	✓
Titanium	uq/q	482	589.00	64.00	1114.00	✓
Vanadium	uq/q	57.1	55.7	47.6	63.8	✓
Zinc	uq/q	67.0	72.5	62.6	82.4	✓

Material Used: S0525 CANMET TILL-1 - metals in soil
Date Acquired: Sep 13, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 30 of 42

Metals Strong Acid Digestion (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	14400	17950	13294	22606	✓
Antimony	uq/q	11.1	13.9	7.9	19.9	✓
Arsenic	uq/q	82.4	91.4	72.2	110.6	✓
Barium	uq/q	163	185.00	140.00	230.00	✓
Beryllium	uq/q	0.83	1.03	0.85	1.21	✓
Cadmium	uq/q	35.4	40.90	32.92	48.88	✓
Calcium	uq/q	19000	20400	14400	26400	✓
Chromium	uq/q	16.5	20.30	14.36	26.24	✓
Cobalt	uq/q	6.12	7.30	4.75	9.85	✓
Copper	uq/q	97.2	108.00	85.20	130.80	✓
Iron	uq/q	19700	22500	16500	28500	✓
Lead	uq/q	860	1097.0	836.0	1358.0	✓
Magnesium	uq/q	6080	7500	6900	8100	✓
Manganese	uq/q	462	515.0	365.0	665.0	✓
Mercury	uq/q	5.67	7.040	4.670	9.410	✓
Molybdenum	uq/q	0.99	1.02	0.72	1.32	✓
Nickel	uq/q	14.4	17.000	13.430	20.570	✓
Phosphorus	uq/q	595	677.0	515.0	839.0	✓
Potassium	uq/q	3820	4050	2850	5250	✓
Selenium	uq/q	0.8	0.9	-1.1	2.8	✓
Silver	uq/q	3.3	2.0	-4.3	8.3	✓
Sodium	uq/q	214	226	76	376	✓
Strontium	uq/q	38.3	40.00	28.00	52.00	✓
Thallium	uq/q	<0.3	1.5	0.3	2.7	✓
Tin	uq/q	2.0	2.3	1.5	3.1	✓
Titanium	uq/q	151	281.00	191.00	371.00	✓
Vanadium	uq/q	37.4	44.0	33.5	54.5	✓
Zinc	uq/q	275	320.0	245.0	395.0	✓

Material Used: S0529 NIST 2711 - metals in soil
Date Acquired: Sep 13, 2006
Acquired By: Marie England



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 31 of 42

Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	<0.2	0.0	0.0	0.1	✓
Iron	mq/L	<0.1	0.0	0.0	0.0	✓
Magnesium	mq/L	<0.1	0.0	0.0	0.0	✓
Manganese	mq/L	<0.005	0.000	-0.001	0.001	✓
Potassium	mq/L	<0.4	0.0	-0.1	0.1	✓
Silicon	mq/L	<0.05	0.02	-0.04	0.09	✓
Sodium	mq/L	<0.4	0.1	-0.2	0.3	✓
Sulfur	mq/L	<0.3	0.0	-0.3	0.3	✓
Aluminum	uq/L	<5	0	-5	5	✓
Antimony	uq/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	uq/L	<0.2	0.0	-0.2	0.2	✓
Barium	uq/L	<1	0	-1	1	✓
Beryllium	uq/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	uq/L	<0.5	0.0	-0.5	0.5	✓
Boron	uq/L	<2	0	-2	2	✓
Cadmium	uq/L	<0.01	0.00	-0.01	0.01	✓
Chromium	uq/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	uq/L	<0.1	0.0	-0.1	0.1	✓
Copper	uq/L	<1	0	-1	1	✓
Lead	uq/L	<0.1	0.0	-0.1	0.1	✓
Lithium	uq/L	<1	0	-1	1	✓
Molybdenum	uq/L	<1	0	-1	1	✓
Nickel	uq/L	<0.5	0.0	-0.5	0.5	✓
Selenium	uq/L	<0.2	0.0	-0.2	0.2	✓
Silver	uq/L	<0.1	0.0	-0.1	0.1	✓
Strontium	uq/L	<1	0	-1	1	✓
Thallium	uq/L	<0.05	0.00	-0.05	0.05	✓
Tin	uq/L	<1	0	-1	1	✓
Titanium	uq/L	<0.5	0.0	-0.5	0.5	✓
Uranium	uq/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	uq/L	<0.1	0.0	-0.1	0.1	✓
Zinc	uq/L	<1	0	-1	1	✓
Zirconium	uq/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Total (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mq/L	17	16	15.0	0.6	✓
Iron	mq/L	<0.2	<0.2	15.0	0.2	✓
Magnesium	mq/L	1	1	15.0	0.4	✓
Manganese	mq/L	<0.01	<0.01	15.000	0.010	✓
Potassium	mq/L	<0.8	<0.8	15.0	1.2	✓
Silicon	mq/L	2.87	2.76	15.00	0.10	✓
Sodium	mq/L	1	1	15.0	1.2	✓
Sulfur	mq/L	2.3	2.2	15.0	0.1	✓
Aluminum	ug/L	10	10	15	11	✓
Antimony	ug/L	4.4	4.5	15.0	0.4	✓
Arsenic	ug/L	20	19	15.0	0.4	✓
Barium	ug/L	450	450	15	2	✓
Beryllium	ug/L	<0.2	<0.2	15.0	0.2	✓
Bismuth	ug/L	<1	<1	15.0	1.1	✓
Boron	ug/L	4	4	15	4	✓
Cadmium	ug/L	6.54	6.44	15.00	0.02	✓
Chromium	ug/L	30	30	15.0	1.1	✓
Cobalt	ug/L	0.2	0.2	15.0	0.2	✓
Copper	ug/L	777	779	15	2	✓
Lead	ug/L	2	2	15.0	0.2	✓
Lithium	ug/L	10	10	15	2	✓
Molybdenum	ug/L	4	4	15	2	✓
Nickel	ug/L	32	32	15.0	1.1	✓
Selenium	ug/L	<0.4	<0.4	15.0	0.4	✓
Silver	ug/L	<0.2	<0.2	15.0	0.2	✓
Strontium	ug/L	406	411	15	2	✓
Thallium	ug/L	<0.1	<0.1	15.00	0.11	✓
Tin	ug/L	<2	<2	15	2	✓
Titanium	ug/L	2.2	2.4	15.0	1.1	✓
Uranium	ug/L	24.7	24.9	15.0	1.1	✓
Vanadium	ug/L	5.0	5.3	15.0	0.2	✓
Zinc	ug/L	4800	4850	15	2	✓
Zirconium	ug/L	<2	<2	15	2	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

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Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	48.3	50.0	45.0	55.0	✓
Iron	mq/L	1.9	2.0	1.8	2.2	✓
Magnesium	mq/L	18.4	20.0	18.0	22.0	✓
Manganese	mq/L	0.464	0.500	0.450	0.550	✓
Potassium	mq/L	48.8	50.0	45.0	55.0	✓
Silicon	mq/L	5.19	5.00	4.50	5.50	✓
Sodium	mq/L	49.0	50.0	45.0	55.0	✓
Sulfur	mq/L	9.2	10.0	9.0	11.0	✓
Aluminum	uq/L	298	322	273	371	✓
Antimony	uq/L	11.6	11.5	10.2	12.8	✓
Arsenic	uq/L	10.9	11.5	10.3	12.7	✓
Barium	uq/L	59	61	52	69	✓
Beryllium	uq/L	5.6	5.9	4.9	7.0	✓
Bismuth	uq/L	29.8	30.2	26.0	34.4	✓
Boron	uq/L	118	125	102	148	✓
Cadmium	uq/L	0.60	0.63	0.47	0.78	✓
Chromium	uq/L	28.8	31.8	27.5	36.2	✓
Cobalt	uq/L	6.2	6.4	5.4	7.5	✓
Copper	uq/L	57	63	55	70	✓
Lead	uq/L	5.9	6.2	5.4	7.0	✓
Lithium	uq/L	61	65	53	76	✓
Molybdenum	uq/L	59	61	53	69	✓
Nickel	uq/L	28.6	31.4	27.0	35.8	✓
Selenium	uq/L	10.6	11.0	9.7	12.3	✓
Silver	uq/L	6.0	6.2	5.5	7.0	✓
Strontium	uq/L	57	64	55	72	✓
Thallium	uq/L	3.21	3.14	2.56	3.72	✓
Tin	uq/L	57	59	52	66	✓
Titanium	uq/L	29.6	31.5	27.0	36.0	✓
Uranium	uq/L	30.0	30.8	26.9	34.7	✓
Vanadium	uq/L	6.1	6.5	5.4	7.6	✓
Zinc	uq/L	59	59	49	69	✓
Zirconium	uq/L	58	62	53	72	✓

Material Used: Edmonton Digestion Check
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



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Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	239	250.0	225.0	275.0	✓
Iron	mq/L	9.6	10.0	9.0	11.0	✓
Magnesium	mq/L	95.0	100.0	90.0	110.0	✓
Manganese	mq/L	2.33	2.500	2.250	2.750	✓
Potassium	mq/L	243	250.0	225.0	275.0	✓
Silicon	mq/L	26.0	25.00	22.50	27.50	✓
Sodium	mq/L	243	250.0	225.0	275.0	✓
Sulfur	mq/L	48.7	50.0	45.0	55.0	✓
Material Used:	Metals High					
Date Acquired:	Sep 14, 2006					
Acquired By:	Alvin Kwan					



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Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	4.8	5.0	4.5	5.5	✓
Iron	mq/L	0.2	0.2	0.2	0.2	✓
Magnesium	mq/L	1.9	2.0	1.8	2.2	✓
Manganese	mq/L	0.047	0.050	0.045	0.055	✓
Potassium	mq/L	4.8	5.0	4.5	5.5	✓
Silicon	mq/L	0.46	0.50	0.45	0.55	✓
Sodium	mq/L	5.0	5.0	4.5	5.5	✓
Sulfur	mq/L	0.9	1.0	0.9	1.2	✓
Aluminum	uq/L	961	1000	850	1150	✓
Antimony	uq/L	40.2	40.0	34.0	46.0	✓
Arsenic	uq/L	39.4	40.0	34.0	46.0	✓
Barium	uq/L	193	200	170	230	✓
Beryllium	uq/L	19.4	20.0	17.0	23.0	✓
Bismuth	uq/L	102	100.0	85.0	115.0	✓
Boron	uq/L	378	400	340	460	✓
Cadmium	uq/L	1.77	2.00	1.70	2.30	✓
Chromium	uq/L	98.6	100.0	85.0	115.0	✓
Cobalt	uq/L	20.6	20.0	17.0	23.0	✓
Copper	uq/L	190	200	170	230	✓
Lead	uq/L	21.0	20.0	17.0	23.0	✓
Lithium	uq/L	198	200	170	230	✓
Molybdenum	uq/L	196	200	170	230	✓
Nickel	uq/L	96.0	100.0	85.0	115.0	✓
Selenium	uq/L	38.8	40.0	34.0	46.0	✓
Silver	uq/L	21.2	20.0	17.0	23.0	✓
Strontium	uq/L	195	200	170	230	✓
Thallium	uq/L	11.0	10.00	8.50	11.50	✓
Tin	uq/L	190	200	170	230	✓
Titanium	uq/L	96.8	100.0	85.0	115.0	✓
Uranium	uq/L	103	100.0	85.0	115.0	✓
Vanadium	uq/L	19.1	20.0	17.0	23.0	✓
Zinc	uq/L	205	200	170	230	✓
Zirconium	uq/L	196	200	170	230	✓

Material Used: Metals Low
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

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3 Calcite Business Centre
151 Industrial Road
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Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	53	50	43	58	✓
Antimony	uq/L	2.0	2.0	1.7	2.3	✓
Arsenic	uq/L	2.0	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.0	1.0	0.9	1.2	✓
Bismuth	uq/L	5.2	5.0	4.3	5.8	✓
Boron	uq/L	20	20	17	23	✓
Cadmium	uq/L	0.10	0.10	0.09	0.12	✓
Chromium	uq/L	4.9	5.0	4.3	5.8	✓
Cobalt	uq/L	1.1	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.0	1.0	0.9	1.2	✓
Lithium	uq/L	10	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	4.9	5.0	4.3	5.8	✓
Selenium	uq/L	2.0	2.0	1.7	2.3	✓
Silver	uq/L	1	1.0	0.9	1.2	✓
Strontium	uq/L	10	10	9	12	✓
Thallium	uq/L	0.54	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.0	5.0	4.3	5.8	✓
Uranium	uq/L	5.4	5.0	4.3	5.8	✓
Vanadium	uq/L	1.1	1.0	0.9	1.2	✓
Zinc	uq/L	9	10	9	12	✓
Zirconium	uq/L	10	10	9	12	✓

Material Used: Metals Trace
Date Acquired: Sep 14, 2006
Acquired By: Alexandra Robert



Quality Control

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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
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Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

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Physical and Aggregate Properties

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Turbidity	NTU	<0.1	0.0	-0.1	0.1	✓
Material Used:	Surrey Blank					
Date Acquired:	Sep 14, 2006					
Acquired By:	Vanessa Li					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Turbidity	NTU	0.4	0.4	15.0	0.5	✓
Solids	mg/L	910	965	30	5	✓
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	Sep 11, 2006					
Acquired By:	Ken Dvkstra					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	26	24	18	30	✓
Material Used:	QL-SLD-					
Date Acquired:	Sep 11, 2006					
Acquired By:	Ken Dvkstra					
Solids	mg/L	412	400	310	490	✓
Material Used:	Q-SLD-					
Date Acquired:	Sep 11, 2006					
Acquired By:	Ken Dykstra					
Solids	mg/L	<2	0	-1	1	✓
Material Used:	Surrey Blank 2					
Date Acquired:	Sep 12, 2006					
Acquired By:	Ken Dykstra					



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Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
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Page: 38 of 42

Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	<0.2	0.0	-0.2	0.2	✓
Magnesium	mq/L	<0.1	0.0	-0.1	0.1	✓
Sodium	mq/L	<0.4	0.0	-0.4	0.4	✓
Potassium	mq/L	<0.4	0.0	-0.4	0.4	✓
Iron	mq/L	<0.01	0.00	-0.01	0.01	✓
Manganese	mq/L	<0.005	0.000	-0.005	0.005	✓
Nitrate - N	mq/L	<0.01	0.00	-0.01	0.01	✓
Nitrite - N	mq/L	<0.005	0.000	-0.005	0.005	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 14, 2006
Acquired By: Kali Hicks

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	uS/cm	456	445	400	490	✓

Material Used: S1021 - minerals
Date Acquired: Sep 11, 2006
Acquired By: Mark-Anthonv Castelli

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mq/L	530	531	10.0	0.6	✓
Magnesium	mg/L	54	54	10.0	0.7	✓
Sodium	mq/L	337	338	10.0	1.2	✓
Potassium	mg/L	1.0	1.0	10.0	1.2	✓
Iron	mq/L	0.10	0.10	9.99	0.05	✓
Manganese	mg/L	0.25	0.26	9.990	0.010	✓
Nitrate - N	mq/L	0.55	0.55	9.99	0.01	✓
Nitrite - N	mg/L	<0.005	<0.005	9.990	0.010	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 14, 2006
Acquired By: Kali Hicks

Electrical Conductivity	uS/cm	187	188	10	5	✓

Material Used: Surrey - Int. Duplicate 1
Date Acquired: Sep 11, 2006
Acquired By: Mark-Anthonv Castelli



Quality Control

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Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 39 of 42

Routine Water (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	uS/cm	<1	3	0	6	✓
Material Used:	DI water 1					
Date Acquired:	Sep 11, 2006					
Acquired By:	Mark-Anthonv Castelli					
Electrical Conductivity	uS/cm	152	147	137	157	✓
Material Used:	EC-CC1-					
Date Acquired:	Sep 11, 2006					
Acquired By:	Mark-Anthonv Castelli					
Electrical Conductivity	uS/cm	1430	1412	1382	1442	✓
Material Used:	EC-CC2					
Date Acquired:	Sep 11, 2006					
Acquired By:	Mark-Anthonv Castelli					
Electrical Conductivity	uS/cm	6720	6668	6568	6768	✓
Material Used:	EC-CC3-					
Date Acquired:	Sep 11, 2006					
Acquired By:	Mark-Anthonv Castelli					
Calcium	mg/L	249	250.0	225.0	275.0	✓
Magnesium	mg/L	98.1	100.0	90.0	110.0	✓
Sodium	mg/L	251	250.0	225.0	275.0	✓
Potassium	mg/L	248	250.0	225.0	275.0	✓
Iron	mg/L	9.95	10.00	9.01	10.99	✓
Manganese	mg/L	2.42	2.500	2.260	2.740	✓
Material Used:	Metals High					
Date Acquired:	Sep 14, 2006					
Acquired By:	Alvin Kwan					
Calcium	mq/L	4.9	5.0	4.5	5.5	✓
Magnesium	mq/L	1.9	2.0	1.8	2.2	✓
Sodium	mq/L	5.2	5.0	4.5	5.5	✓
Potassium	mq/L	5.0	5.0	4.5	5.5	✓
Iron	mq/L	0.20	0.20	0.18	0.22	✓
Manganese	mq/L	0.049	0.050	0.045	0.055	✓
Material Used:	Metals Low					
Date Acquired:	Sep 14, 2006					
Acquired By:	Alvin Kwan					
Electrical Conductivity	uS/cm	<1	1	0	2	✓
Material Used:	RO water 1					
Date Acquired:	Sep 11, 2006					
Acquired By:	Mark-Anthonv Castelli					



Quality Control

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LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 40 of 42

Routine Water (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Nitrate - N	mq/L	10.2	10.00	9.51	10.49	✓
Nitrite - N	mq/L	10.1	10.000	9.562	10.438	✓
Material Used:	Water High					
Date Acquired:	Sep 14, 2006					
Acquired By:	Kali Hicks					
Nitrate - N	mg/L	0.51	0.50	0.44	0.56	✓
Nitrite - N	mg/L	0.509	0.495	0.437	0.553	✓
Material Used:	Water Low					
Date Acquired:	Sep 14, 2006					
Acquired By:	Kali Hicks					

Soil Acidity

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.0	100.1	99.6-100.8	✓
Material Used:	CC - pH					
Date Acquired:	Sep 12, 2006					
Acquired By:	Mark-Anthonv Castelli					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH	pH	5.8	5.8	0.2	0.1	✓
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	Sep 12, 2006					
Acquired By:	Mark-Anthony Castelli					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH	pH	6.0	6.0	5.9	6.2	✓
Material Used:	Soil pH 142					
Date Acquired:	Sep 12, 2006					
Acquired By:	Mark-Anthony Castelli					



Methodology and Notes

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 491618
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 41 of 42

Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	15-Sep-06	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	14-Sep-06	Norwest Labs Edmonton
Carbon Inorganic (Total) in water (TIC)	APHA	High-Temperature Combustion Method, 5310 B	14-Sep-06	Norwest Labs Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	14-Sep-06	Norwest Labs Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	14-Sep-06	Norwest Labs Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	13-Sep-06	Norwest Labs Edmonton
Conductivity (Surrey)	APHA	* Conductivity - Laboratory Method, 2510 B	11-Sep-06	Norwest Labs Surrey
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	13-Sep-06	Norwest Labs Edmonton
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	14-Sep-06	Norwest Labs Edmonton
Metals (Strong Acid Leachable) in soils	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	13-Sep-06	Norwest Labs Surrey
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Sep-06	Norwest Labs Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	14-Sep-06	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	14-Sep-06	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	14-Sep-06	Norwest Labs Edmonton
Orthophosphate-P in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	14-Sep-06	Norwest Labs Edmonton
pH and EC in Soil - 1:2 (Surrey)	McKeague	* 1:2 Soil:Water Ratio, 4.12	12-Sep-06	Norwest Labs Surrey
Preparation - Seive to -10 mesh	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	12-Sep-06	Norwest Labs Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	12-Sep-06	Norwest Labs Surrey
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	14-Sep-06	Norwest Labs Edmonton
Turbidity in Water	APHA	* Nephelometric Method, 2130 B	14-Sep-06	Norwest Labs Surrey

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory



Methodology and Notes

Norwest Labs
#104, 19575-55 A Ave.
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Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
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3 Calcite Business Centre
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Y1A 2V3
Attn: Paul Inglis
Sampled By: PI/CF/CT
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: CMC Property
LSD:
P.O.:
Acct. Code:

NWL Lot ID: **491618**
Control Number: E 79195
Date Received: Sep 11, 2006
Date Reported: Sep 15, 2006
Report Number: 902063

Page: 42 of 42

* Norwest method(s) is based on reference method

References:

APHA	Standard Methods for the Examination of Water and Wastewater
B.C.M.O.E	B.C. Ministry of Environment
ISO	International Organization for Standardization
McKeague	Manual on Soil Sampling and Methods of Analysis
US EPA	US Environmental Protection Agency Test Methods

Comments:

Some MS total metal results were less than dissolved metal results for sample 491618-1 to 15. The results were verified and are within the method uncertainty. Sept 15/06
Some trace total metal results were less than dissolved metal results for sample 491618-2,8,9,11,12. The results were confirmed. BM september 15, 2006
Some trace total metal results were less than dissolved metal results for samples 491618-1,3-7,10,13-15. The results were verified and are within the method uncertainty. BM september 15, 2006
Sample 14 Sample received unpreserved for TP analysis.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted

The test report shall not be reproduced except in full, without the written approval of the laboratory

Your P.O. #: CMC-09-02
Your Project #: CMC-09-02
Your C.O.C. #: 08300552

Attention: David Petkovich
ACCESS CONSULTING GROUP
#3 Calcite
151 Industrial Road
WHITEHORSE, YT
CANADA Y1A 3C8

Report Date: 2009/06/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A924283

Received: 2009/05/22, 12:50

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	5	2009/05/23	2009/05/24	BRN SOP-00264 R4.0	Based on SM2320B
Chloride by Automated Colourimetry	5	N/A	2009/05/27	BRN-SOP 00234 R3.0	Based on EPA 325.2
Carbon (DOC)	4	N/A	2009/05/26	BRN SOP-00224 R4.0	Based on M 860-87T
Carbon (DOC)	1	N/A	2009/05/30	BRN SOP-00224 R4.0	Based on M 860-87T
Conductance - water	5	N/A	2009/05/24	BRN SOP-00264 R2.0	Based on SM-2510B
Fluoride - Mining Clients	5	N/A	2009/05/25	BRN SOP-00225 R1.0	Based SM - 4500 F C
Hardness Total (calculated as CaCO3)	5	N/A	2009/05/28		
Hardness (calculated as CaCO3)	5	N/A	2009/05/29		
Ion Balance	5	N/A	2009/05/28		
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	5	N/A	2009/05/28	BRN SOP-00206 R7.0	Based on EPA 200.8
Elements by ICPMS Low Level (dissolved) @	5	N/A	2009/05/28	BRN SOP-00206 R7.0	Based on EPA 200.8
Elements by ICPMS Low Level (total) @	5	2009/05/27	2009/05/28	BRN SOP-00206 R7.0	Based on EPA 200.8
Na, K, Ca, Mg, S by CRC ICPMS (total)	5	2009/05/27	2009/05/28	BRN SOP-00206 R7.0	Based on EPA 200.8
Ammonia (N)	5	N/A	2009/05/26	BRN SOP-00232 R4.0	Based on USEPA 350.1
Nitrate + Nitrite (N)	5	N/A	2009/05/26	ING233 Rev.4.4	Based on EPA 353.2
Nitrite (N) by CFA	5	N/A	2009/05/26	BRN SOP-00233 R1.0	EPA 353.2
Nitrogen - Nitrate (as N)	5	N/A	2009/05/27		
Filter and HNO3 Preserve for Metals	5	N/A	2009/05/25	BRN WI-00006 R1.0	Based on EPA 200.2
pH Water	5	N/A	2009/05/24	BRN SOP-00264 R4.0	Based on SM-4500H+B
Sulphate by Automated Colourimetry	5	N/A	2009/05/27	BRN-SOP 00243 R1.0	Based on EPA 375.4
Total Dissolved Solids (Filt. Residue)	5	N/A	2009/05/28	BRN SOP 00276 R4.0	SM 2540C
Carbon (Total Organic)	4	N/A	2009/05/26	BRN SOP-00224 R4.0	Based on SM-5310C
Carbon (Total Organic)	1	N/A	2009/05/30	BRN SOP-00224 R4.0	Based on SM-5310C
Total Phosphorus	5	N/A	2009/05/25	BRN SOP-00236 R4.0	SM 4500
Total Suspended Solids	5	N/A	2009/05/25	BRN SOP-00277 R5.0	Based on SM-2540 D

* Results relate only to the items tested.

(1) SCC/CAEAL

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

KIMBERLEY WEBBER, BBY Customer Service
Email: kim.webber@maxxamanalytics.com
Phone# (604) 444-4808 Ext:259

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CALA have approved this reporting process and electronic report format.

Total cover pages: 2

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		O89899	O89900	O89901		O89902			O89903		
Sampling Date		2009/05/20 12:30	2009/05/20 11:30	2009/05/20 13:45		2009/05/20 15:00			2009/05/20 15:45		
	Units	CMC-M1	CMC-M2	CMC-OC2	QC Batch	CMC-07	RDL	QC Batch	CMC-11	RDL	QC Batch
Misc. Inorganics											
Fluoride (F)	mg/L	0.03	0.03	0.04	3146884	0.03	0.01	3146884	0.12	0.01	3146884
Preparation											
Filter and HNO3 Preservation	N/A	FIELD	FIELD	FIELD	ONSITE	FIELD	N/A	ONSITE	FIELD	N/A	ONSITE
ANIONS											
Nitrite (N)	mg/L	<0.005	<0.005	<0.005	3150309	<0.005	0.005	3150309	<0.005	0.005	3150309
Calculated Parameters											
Ion Balance	N/A	NC	NC	NC	3144188	NC	0.01	3144188	NC	0.01	3144188
Nitrate (N)	mg/L	<0.02	<0.02	0.03	3144008	0.03	0.02	3144008	0.07	0.02	3144008
Misc. Inorganics											
Dissolved Organic Carbon (C)	mg/L	<0.5	10.4	4.6	3148273	1.8	0.5	3160478	1.7	0.5	3148273
Alkalinity (Total as CaCO3)	mg/L	13	17	22	3144138	16	0.5	3144138	78	0.5	3144138
Total Organic Carbon (C)	mg/L	11.4	10.1	5.0	3148315	1.5	0.5	3160484	1.8	0.5	3148315
Alkalinity (PP as CaCO3)	mg/L	<0.5	<0.5	<0.5	3144138	<0.5	0.5	3144138	<0.5	0.5	3144138
Bicarbonate (HCO3)	mg/L	16	20	26	3144138	20	0.5	3144138	95	0.5	3144138
Carbonate (CO3)	mg/L	<0.5	<0.5	<0.5	3144138	<0.5	0.5	3144138	<0.5	0.5	3144138
Hydroxide (OH)	mg/L	<0.5	<0.5	<0.5	3144138	<0.5	0.5	3144138	<0.5	0.5	3144138
Anions											
Dissolved Sulphate (SO4)	mg/L	2.4	3.9	4.6	3155279	2.6	0.5	3155279	63	5	3155279
Dissolved Chloride (Cl)	mg/L	1.2	1.1	1.4	3154995	<0.5	0.5	3154995	<0.5	0.5	3154995
Nutrients											
Ammonia (N)	mg/L	<0.005	<0.005	<0.005	3152862	<0.005	0.005	3152862	<0.005	0.005	3152862
Nitrate plus Nitrite (N)	mg/L	<0.02	<0.02	0.03	3150230	0.03	0.02	3150230	0.07	0.02	3150230
Total Phosphorus (P)	mg/L	0.006	<0.005	<0.005	3145026	<0.005	0.005	3145026	0.010	0.005	3145026
Physical Properties											
Conductivity	uS/cm	35	46	49	3144137	40	1	3144137	300	1	3144137
pH	pH Units	7.3	7.5	7.5	3144131	7.4		3144131	7.9		3144131
Physical Properties											
Total Suspended Solids	mg/L	2	<1	1	3144844	<1	1	3144844	35	1	3144844
Total Dissolved Solids	mg/L	34	44	46	3150610	38	10	3150610	190	10	3150610

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

Maxxam ID		O89899	O89900	O89901	O89902	O89903		
Sampling Date		2009/05/20 12:30	2009/05/20 11:30	2009/05/20 13:45	2009/05/20 15:00	2009/05/20 15:45		
	Units	CMC-M1	CMC-M2	CMC-OC2	CMC-07	CMC-11	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO ₃)	mg/L	16.7	21.9	22.1	17.5	144	0.5	3144007
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	152	111	36.5	26.3	46.9	0.2	3153913
Dissolved Antimony (Sb)	ug/L	<0.02	0.06	0.04	0.03	3.28	0.02	3153913
Dissolved Arsenic (As)	ug/L	0.09	0.10	0.11	0.10	8.46	0.02	3153913
Dissolved Barium (Ba)	ug/L	8.10	7.68	5.88	4.72	7.05	0.02	3153913
Dissolved Beryllium (Be)	ug/L	0.04	0.03	0.02	0.01	0.01	0.01	3153913
Dissolved Bismuth (Bi)	ug/L	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	3153913
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	3153913
Dissolved Cadmium (Cd)	ug/L	0.008	0.023	0.005	<0.005	5.53	0.005	3153913
Dissolved Chromium (Cr)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3153913
Dissolved Cobalt (Co)	ug/L	0.023	0.018	0.019	0.007	0.228	0.005	3153913
Dissolved Copper (Cu)	ug/L	0.66	0.77	0.36	0.25	1.17	0.05	3153913
Dissolved Iron (Fe)	ug/L	152	108	42	8	34	1	3153913
Dissolved Lead (Pb)	ug/L	0.021	0.106 ⁽¹⁾	0.041	0.035	0.615	0.005	3153913
Dissolved Lithium (Li)	ug/L	0.8	0.8	0.7	0.5	6.7	0.5	3153913
Dissolved Manganese (Mn)	ug/L	1.13	0.68	2.53	1.39	37.2	0.05	3153913
Dissolved Molybdenum (Mo)	ug/L	0.44	0.60	0.65	0.55	2.87	0.05	3153913
Dissolved Nickel (Ni)	ug/L	0.12	0.12	0.07	0.05	5.10	0.02	3153913
Dissolved Selenium (Se)	ug/L	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	3153913
Dissolved Silicon (Si)	ug/L	3310	3400	2940	2380	3070	100	3153913
Dissolved Silver (Ag)	ug/L	<0.005	0.005	<0.005	<0.005	0.015	0.005	3153913
Dissolved Strontium (Sr)	ug/L	56.0	68.6	70.9	57.7	227	0.05	3153913
Dissolved Thallium (Tl)	ug/L	0.006	0.004	0.005	0.003	0.011	0.002	3153913
Dissolved Tin (Sn)	ug/L	<0.01	0.01	<0.01	<0.01	<0.01	0.01	3153913
Dissolved Titanium (Ti)	ug/L	2.1	1.1	<0.5	<0.5	1.5	0.5	3153913
Dissolved Uranium (U)	ug/L	0.820	1.08	1.07	0.942	10.1	0.002	3153913
Dissolved Vanadium (V)	ug/L	0.5	0.3	<0.2	0.2	<0.2	0.2	3153913
Dissolved Zinc (Zn)	ug/L	2.0 ⁽¹⁾	5.7 ⁽¹⁾	1.5 ⁽¹⁾	1.5 ⁽¹⁾	3310	0.1	3153913
Dissolved Zirconium (Zr)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3153913
Dissolved Calcium (Ca)	mg/L	5.86	7.57	7.75	6.17	44.4	0.05	3156958
Dissolved Magnesium (Mg)	mg/L	0.50	0.71	0.68	0.52	8.04	0.05	3156958
Dissolved Potassium (K)	mg/L	0.33	0.33	0.28	0.22	0.71	0.05	3156958
Dissolved Sodium (Na)	mg/L	1.07	1.19	1.24	1.07	1.16	0.05	3156958

RDL = Reportable Detection Limit

(1) - dissolved > total, reanalyzed & confirmed. Possible trace level of field-filtered contamination on dissolved metal bottle or there is a discrepancy between samples taken.

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

LOW LEVEL DISSOLVED METALS - WATER (WATER)

Maxxam ID		O89899	O89900	O89901	O89902	O89903		
Sampling Date		2009/05/20 12:30	2009/05/20 11:30	2009/05/20 13:45	2009/05/20 15:00	2009/05/20 15:45		
	Units	CMC-M1	CMC-M2	CMC-OC2	CMC-07	CMC-11	RDL	QC Batch
Dissolved Sulphur (S)	mg/L	<3	<3	<3	<3	26	3	3156958

RDL = Reportable Detection Limit

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

LOW LEVEL TOTAL METALS - WATER (WATER)

Maxxam ID		O89899	O89900	O89901	O89902	O89903		
Sampling Date		2009/05/20 12:30	2009/05/20 11:30	2009/05/20 13:45	2009/05/20 15:00	2009/05/20 15:45		
	Units	CMC-M1	CMC-M2	CMC-OC2	CMC-07	CMC-11	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO ₃)	mg/L	16.8	22.3	21.9	17.2	143	0.5	3144006
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	162	115	41.1	29.7	303	0.2	3152088
Total Antimony (Sb)	ug/L	<0.02	0.04	0.04	0.02	3.27	0.02	3152088
Total Arsenic (As)	ug/L	0.10	0.08	0.09	0.13	11.6	0.02	3152088
Total Barium (Ba)	ug/L	7.78	7.56	5.83	4.49	9.71	0.02	3152088
Total Beryllium (Be)	ug/L	0.03	0.03	0.02	0.01	0.06	0.01	3152088
Total Bismuth (Bi)	ug/L	<0.005	<0.005	<0.005	<0.005	0.012	0.005	3152088
Total Boron (B)	ug/L	<50	<50	<50	<50	<50	50	3152088
Total Cadmium (Cd)	ug/L	0.016	0.018	0.016	<0.005	5.47	0.005	3152088
Total Chromium (Cr)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3152088
Total Cobalt (Co)	ug/L	0.025	0.027	0.012	0.007	0.376	0.005	3152088
Total Copper (Cu)	ug/L	0.74	0.82	0.39	0.27	4.06	0.05	3152088
Total Iron (Fe)	ug/L	169	110	51	12	273	1	3152088
Total Lead (Pb)	ug/L	0.024	0.043	0.035	0.038	6.92	0.005	3152088
Total Lithium (Li)	ug/L	0.8	0.9	0.6	0.6	6.9	0.5	3152088
Total Manganese (Mn)	ug/L	1.43	0.81	2.63	2.39	51.8	0.05	3152088
Total Molybdenum (Mo)	ug/L	0.47	0.59	0.64	0.53	2.65	0.05	3152088
Total Nickel (Ni)	ug/L	0.12	0.11	0.04	<0.02	5.58	0.02	3152088
Total Selenium (Se)	ug/L	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	3152088
Total Silicon (Si)	ug/L	3530	3560	3080	2560	3700	100	3152088
Total Silver (Ag)	ug/L	<0.005	<0.005	<0.005	<0.005	0.104	0.005	3152088
Total Strontium (Sr)	ug/L	53.4	66.0	67.3	53.1	214	0.05	3152088
Total Thallium (Tl)	ug/L	0.004	0.004	0.002	<0.002	0.013	0.002	3152088
Total Tin (Sn)	ug/L	<0.01	<0.01	<0.01	<0.01	0.04	0.01	3152088
Total Titanium (Ti)	ug/L	2.4	1.6	<0.5	<0.5	9.4	0.5	3152088
Total Uranium (U)	ug/L	0.830	1.13	1.12	0.996	10.6	0.002	3152088
Total Vanadium (V)	ug/L	0.2	<0.2	<0.2	<0.2	0.5	0.2	3152088
Total Zinc (Zn)	ug/L	1.3	3.7	0.8	1.1	3500	0.1	3152088
Total Zirconium (Zr)	ug/L	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	3152088
Total Calcium (Ca)	mg/L	5.89	7.74	7.66	6.05	43.4	0.05	3153817
Total Magnesium (Mg)	mg/L	0.50	0.73	0.67	0.50	8.53	0.05	3153817
Total Potassium (K)	mg/L	0.31	0.29	0.27	0.19	0.74	0.05	3153817
Total Sodium (Na)	mg/L	1.14	1.28	1.32	1.12	1.26	0.05	3153817
Total Sulphur (S)	mg/L	<3	<3	<3	<3	26	3	3153817

RDL = Reportable Detection Limit

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

Package 1	7.7°C

Each temperature is the average of up to three cooler temperatures taken at receipt

General Comments

Sample O89899-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample O89900-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample O89901-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample O89902-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample O89903-: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spike		Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3144137	Conductivity	2009/05/24			101	80 - 120	<1	uS/cm	0	25
3144138	Alkalinity (Total as CaCO ₃)	2009/05/24			97	80 - 120	<0.5	mg/L	7.6	25
3144138	Alkalinity (PP as CaCO ₃)	2009/05/24					<0.5	mg/L	NC	25
3144138	Bicarbonate (HCO ₃)	2009/05/24					<0.5	mg/L	7.6	25
3144138	Carbonate (CO ₃)	2009/05/24					<0.5	mg/L	NC	25
3144138	Hydroxide (OH)	2009/05/24					<0.5	mg/L	NC	25
3144844	Total Suspended Solids	2009/05/25			103	N/A	<1	mg/L		
3145026	Total Phosphorus (P)	2009/05/25	93	80 - 120	92	80 - 120	<0.005	mg/L	NC	25
3146884	Fluoride (F)	2009/05/25	97	80 - 120	94	80 - 120	<0.01	mg/L	0.8	25
3148273	Dissolved Organic Carbon (C)	2009/05/26	103	80 - 120	109	80 - 120	<0.5	mg/L	2.0	20
3148315	Total Organic Carbon (C)	2009/05/26	108	80 - 120	109	80 - 120	<0.5	mg/L	1.3	20
3150230	Nitrate plus Nitrite (N)	2009/05/26	109	80 - 120	101	80 - 120	<0.02	mg/L	NC	25
3150309	Nitrite (N)	2009/05/26	107	80 - 120	99	80 - 120	<0.005	mg/L	NC	25
3150610	Total Dissolved Solids	2009/05/28	102	80 - 120	110	80 - 120	<10	mg/L	6.5	25
3152088	Total Arsenic (As)	2009/05/27	95	75 - 125	92	75 - 125	<0.02	ug/L	1.9	25
3152088	Total Beryllium (Be)	2009/05/27	108	75 - 125	103	75 - 125	<0.01	ug/L	NC	25
3152088	Total Cadmium (Cd)	2009/05/27	99	75 - 125	99	75 - 125	<0.005	ug/L	18.1	25
3152088	Total Chromium (Cr)	2009/05/27	95	75 - 125	96	75 - 125	<0.1	ug/L	NC	25
3152088	Total Cobalt (Co)	2009/05/27	95	75 - 125	94	75 - 125	<0.005	ug/L	3.4	25
3152088	Total Copper (Cu)	2009/05/27	NC	75 - 125	98	75 - 125	<0.05	ug/L	1.8	25
3152088	Total Lead (Pb)	2009/05/27	100	75 - 125	99	75 - 125	<0.005	ug/L	6.0	25
3152088	Total Lithium (Li)	2009/05/27	105	75 - 125	103	75 - 125	<0.5	ug/L	NC	25
3152088	Total Nickel (Ni)	2009/05/27	97	75 - 125	92	75 - 125	<0.02	ug/L	10.8	25
3152088	Total Selenium (Se)	2009/05/27	101	75 - 125	98	75 - 125	<0.04	ug/L	NC	25
3152088	Total Uranium (U)	2009/05/27	102	75 - 125	101	75 - 125	<0.002	ug/L	NC	25
3152088	Total Vanadium (V)	2009/05/27	91	75 - 125	96	75 - 125	<0.2	ug/L	NC	25
3152088	Total Zinc (Zn)	2009/05/27	91	75 - 125	98	75 - 125	<0.1	ug/L	1.9	25
3152088	Total Aluminum (Al)	2009/05/27					<0.2	ug/L	0.6	25
3152088	Total Antimony (Sb)	2009/05/27					<0.02	ug/L	NC	25
3152088	Total Barium (Ba)	2009/05/27					<0.02	ug/L	1.1	25
3152088	Total Bismuth (Bi)	2009/05/27					<0.005	ug/L	NC	25
3152088	Total Boron (B)	2009/05/27					<50	ug/L	NC	25
3152088	Total Iron (Fe)	2009/05/27					<1	ug/L		
3152088	Total Manganese (Mn)	2009/05/27					<0.05	ug/L	3.9	25
3152088	Total Molybdenum (Mo)	2009/05/27					<0.05	ug/L	NC	25
3152088	Total Silicon (Si)	2009/05/27					<100	ug/L		
3152088	Total Silver (Ag)	2009/05/27					<0.005	ug/L	NC	25
3152088	Total Strontium (Sr)	2009/05/27					<0.05	ug/L	0.4	25
3152088	Total Thallium (Tl)	2009/05/27					<0.002	ug/L	NC	25

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spike		Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3152088	Total Tin (Sn)	2009/05/27					<0.01	ug/L	NC	25
3152088	Total Titanium (Ti)	2009/05/27					<0.5	ug/L		
3152088	Total Zirconium (Zr)	2009/05/27					<0.1	ug/L		
3152862	Ammonia (N)	2009/05/26	88	80 - 120	95	80 - 120	<0.005	mg/L	NC	25
3153817	Total Calcium (Ca)	2009/05/27					<0.05	mg/L		
3153817	Total Magnesium (Mg)	2009/05/27					<0.05	mg/L	1.6	25
3153817	Total Potassium (K)	2009/05/27					<0.05	mg/L		
3153817	Total Sodium (Na)	2009/05/27					<0.05	mg/L		
3153817	Total Sulphur (S)	2009/05/27					<3	mg/L		
3153913	Dissolved Arsenic (As)	2009/05/28	99	75 - 125	98	75 - 125	<0.02	ug/L	NC	25
3153913	Dissolved Beryllium (Be)	2009/05/28	107	75 - 125	103	75 - 125	<0.01	ug/L	NC	25
3153913	Dissolved Cadmium (Cd)	2009/05/28	104	75 - 125	103	75 - 125	<0.005	ug/L	NC	25
3153913	Dissolved Chromium (Cr)	2009/05/28	90	75 - 125	96	75 - 125	<0.1	ug/L	NC	25
3153913	Dissolved Cobalt (Co)	2009/05/28	90	75 - 125	93	75 - 125	<0.005	ug/L	NC	25
3153913	Dissolved Copper (Cu)	2009/05/28	93	75 - 125	94	75 - 125	<0.05	ug/L	3.8	25
3153913	Dissolved Lead (Pb)	2009/05/28	100	75 - 125	102	75 - 125	<0.005	ug/L	NC	25
3153913	Dissolved Lithium (Li)	2009/05/28	105	75 - 125	101	75 - 125	<0.5	ug/L	NC	25
3153913	Dissolved Nickel (Ni)	2009/05/28	90	75 - 125	94	75 - 125	<0.02	ug/L	17.5	25
3153913	Dissolved Selenium (Se)	2009/05/28	98	75 - 125	95	75 - 125	<0.04	ug/L	NC	25
3153913	Dissolved Uranium (U)	2009/05/28	96	75 - 125	98	75 - 125	<0.002	ug/L	1.8	25
3153913	Dissolved Vanadium (V)	2009/05/28	96	75 - 125	100	75 - 125	<0.2	ug/L	NC	25
3153913	Dissolved Zinc (Zn)	2009/05/28	106	75 - 125	99	75 - 125	<0.1	ug/L	3.5	25
3153913	Dissolved Aluminum (Al)	2009/05/28					<0.2	ug/L	0.5	25
3153913	Dissolved Antimony (Sb)	2009/05/28					<0.02	ug/L	NC	25
3153913	Dissolved Barium (Ba)	2009/05/28					<0.02	ug/L	0.7	25
3153913	Dissolved Bismuth (Bi)	2009/05/28					<0.005	ug/L	NC	25
3153913	Dissolved Boron (B)	2009/05/28					<50	ug/L	NC	25
3153913	Dissolved Iron (Fe)	2009/05/28					<1	ug/L	1.8	25
3153913	Dissolved Manganese (Mn)	2009/05/28					<0.05	ug/L	0.2	25
3153913	Dissolved Molybdenum (Mo)	2009/05/28					<0.05	ug/L	0.8	25
3153913	Dissolved Silicon (Si)	2009/05/28					<100	ug/L	2.4	25
3153913	Dissolved Silver (Ag)	2009/05/28					<0.005	ug/L	NC	25
3153913	Dissolved Strontium (Sr)	2009/05/28					<0.05	ug/L	1.6	25
3153913	Dissolved Thallium (Tl)	2009/05/28					<0.002	ug/L	NC	25
3153913	Dissolved Tin (Sn)	2009/05/28					<0.01	ug/L	NC	25
3153913	Dissolved Titanium (Ti)	2009/05/28					<0.5	ug/L	NC	25
3153913	Dissolved Zirconium (Zr)	2009/05/28					<0.1	ug/L	NC	25
3154995	Dissolved Chloride (Cl)	2009/05/27	102	80 - 120	104	80 - 120	<0.5	mg/L	0.3	20
3155279	Dissolved Sulphate (SO4)	2009/05/27			91	80 - 120	0.5, RDL=0.5	mg/L	1.4	20

Maxxam Job #: A924283
Report Date: 2009/06/01

ACCESS CONSULTING GROUP
Client Project #: CMC-09-02

Your P.O. #: CMC-09-02
Sampler Initials: PI

QUALITY ASSURANCE REPORT

QC Batch	Parameter	Date	Matrix Spike		Spike		Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	Units	Value (%)	QC Limits
3156958	Dissolved Calcium (Ca)	2009/05/28					<0.05	mg/L	1.3	25
3156958	Dissolved Magnesium (Mg)	2009/05/28					<0.05	mg/L	1.1	25
3156958	Dissolved Potassium (K)	2009/05/28					<0.05	mg/L	1.5	25
3156958	Dissolved Sodium (Na)	2009/05/28					<0.05	mg/L	0.09	25
3156958	Dissolved Sulphur (S)	2009/05/28					<3	mg/L	NC	25
3160478	Dissolved Organic Carbon (C)	2009/05/30	96	80 - 120	95	80 - 120	<0.5	mg/L	9.3	20
3160484	Total Organic Carbon (C)	2009/05/30	98	80 - 120	87	80 - 120	<0.5	mg/L	NC	20

N/A = Not Applicable

NC = Non-calculable

RDL = Reportable Detection Limit

RPD = Relative Percent Difference



**NORWEST
LABS**

Environmental Sample Information Sheet

Control Number

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To: ☐	Copy of Report To:	Copy of invoice: ☐
Company: Access Consulting Group Address: #3 Calcite Business Centre-151 Industrial Road Whitehorse, YT Y1A 2V3		QA/QC Report ☒	Company: Address:	Mail invoice to this address for approval ☐ 559027
Attention: Paul Inglis Phone: 867-668-6664 <i>6963</i> Fax: 867-667-6680 Cell: Email: paul@accessconsulting.ca		Report Result: Fax ☐ Mail ☐ Courier ☐ Email ☒	Attention: Phone: Fax: Cell: Email:	Report Result: Fax ☐ Mail ☐ Courier ☐ Email ☐

Information to be included on Report and Invoice Project ID: CMC-07-01 Project Name: Silver Hart Baseline Project Location: Silver Hart Legal Location: PO#: Proj. Acct. Code: CMC-07-01 Agreement ID:	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses or as indicated ☐ or ☐ Date required: Signature: Norwest Authorization:	Sample Custody (Please Print) Sampled by: PI/FS Date: Aug 21-23 Company: ACG Signature: Relinquished by: P. Inglis Company: ACG Date: Aug 23 Waybill number: Received by: Company: Date: Processed by: Norwest Labs Date:

Special Instructions/Comments please include <u>low level mercury</u> in the metals $\Rightarrow$ only in water.							Number of Containers metals <i>625 sed.</i>													
Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method		Enter tests above (check off relevant samples below)													
1 CMC-01		-	21 Aug	SEDIMENTS	grab	1	☒													
2 CMC-03		-	21 Aug	SEDIMENTS	grab	1	☒													
3 CMC-03A		-	21 Aug	SEDIMENTS	grab	1	☒													
4 CMC-10		-	21 Aug	SEDIMENTS	grab	1	☒													
5 CMC-07		-	23 Aug	sediments	grab	1	☒													
6 CMC-U1		-	23 Aug	sediments	grab	1	☒													
7 CMC-OC2		-	22 Aug	sediments	grab	1	☒													
8 CMC-06		-	22 Aug	sediments	grab	1	☒													
9 CMC-OC3		-	22 Aug	sediments	grab	1	☒													
10 CMC-M1		-	22 Aug	sediments	grab	1	☒													
11 CMC-11		-	23 Aug	sediments	grab	1	☒													
12 CMC-M2		-	23 Aug	sediments	grab	1	☒													
13		-																		
14		-																		

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page ___ of ___
##

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	569021
Report To:	Access Mining Consultants Ltd.	ID:	CMC-07-01	Approval Status:	Approved
	# 3 Calcite Business Centre	Name:	Silver Hart Baseline	Invoice Frequency:	by Lot
	151 Industrial Road	Location:	Silver Hart	COD Status:	
	Whitehorse, YT, Canada	LSD:		Control Number:	
	Y1A 2V3	P.O.:		Date Received:	Aug 24, 2007
Attn:	Paul Inglis	Acct code:	CMC-07-01	Date Reported:	Aug 31, 2007
Sampled By:	PI/FS			Report Number:	1039752
Company:	ACG				

Contact	Company	Address
Paul Inglis	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: paul@accessconsulting.ca

	Copies	Delivery	Format
M	1	Post	
	1	Email - Single Report	PDF
	1	Email - Single Report	Standard Crosstab

_____ PAGES IN THIS TRANSMISSION

Notes To Clients:**Reports associated with this Lot**Id/Format/Report DateId/Format/Report DateId/Format/Report Date

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Bill To: Access Mining Consultants Ltd. Project:
Report To: Access Mining Consultants Ltd. ID: CMC-07-01
3 Calcite Business Centre Name: Silver Hart Baseline
151 Industrial Road Location: Silver Hart
Whitehorse, YT, Canada LSD:
Y1A 2V3 P.O.:
Attn: Paul Inglis Acct code: CMC-07-01
Sampled By: PI/FS
Company: ACG

Lot ID: **569021**
Control Number:
Date Received: Aug 24, 2007
Date Reported: Aug 31, 2007
Report Number: 1039752

Sample Disposal Date: September 30, 2007

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ Loomis

☐ Purolator

☐ Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-07-01
 # 3 Calcite Business Centre Name: Silver Hart Baseline
 151 Industrial Road Location: Silver Hart
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code: CMC-07-01
 Sampled By: PI/FS
 Company: ACG

Lot ID: **569021**
 Control Number:
 Date Received: Aug 24, 2007
 Date Reported: Aug 31, 2007
 Report Number: 1039752

		Reference Number	569021-1	569021-2	569021-3	
		Sample Date	Aug 21, 2007	Aug 21, 2007	Aug 21, 2007	
		Sample Location				
		Sample Description	CMC-01	CMC-03	CMC-03A	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	8630	9020	10000	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	3.7	2.4	<0.2	0.2
Barium	Strong Acid Extractable	ug/g	31.8	26.2	36.3	0.03
Beryllium	Strong Acid Extractable	ug/g	0.52	0.42	0.39	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	1.0	0.5
Cadmium	Strong Acid Extractable	ug/g	0.4	0.67	0.67	0.05
Calcium	Strong Acid Extractable	ug/g	2250	4390	2130	2
Chromium	Strong Acid Extractable	ug/g	14.9	15.7	17.1	0.04
Cobalt	Strong Acid Extractable	ug/g	5.92	6.46	7.88	0.05
Copper	Strong Acid Extractable	ug/g	7.85	11.1	8.22	0.05
Iron	Strong Acid Extractable	ug/g	19200	20900	25200	1
Lead	Strong Acid Extractable	ug/g	9.8	13.0	12.8	0.3
Lithium	Strong Acid Extractable	ug/g	25.7	27.7	32.4	0.1
Magnesium	Strong Acid Extractable	ug/g	3810	4060	4840	1
Manganese	Strong Acid Extractable	ug/g	300	357	653	0.3
Mercury	Strong Acid Extractable	ug/g	0.013	0.004	0.005	0.003
Molybdenum	Strong Acid Extractable	ug/g	0.58	0.72	1.6	0.05
Nickel	Strong Acid Extractable	ug/g	13.0	13.6	16.2	0.1
Phosphorus	Strong Acid Extractable	ug/g	331	294	294	0.5
Potassium	Strong Acid Extractable	ug/g	1170	1220	1060	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	31	28	26	1
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	83	159	47	1
Strontium	Strong Acid Extractable	ug/g	19.5	28.5	14.8	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.6	0.8	1.0	0.2
Titanium	Strong Acid Extractable	ug/g	312	238	207	0.05
Vanadium	Strong Acid Extractable	ug/g	16.9	16.2	17.3	0.1
Zinc	Strong Acid Extractable	ug/g	114	127	151	0.1
Zirconium	Strong Acid Extractable	ug/g	0.64	0.73	0.76	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.4	7.9	7.8	0.5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 569021
Report To: Access Mining Consultants Ltd.	ID: CMC-07-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart Baseline	Date Received: Aug 24, 2007
151 Industrial Road	Location: Silver Hart	Date Reported: Aug 31, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1039752
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code: CMC-07-01	
Sampled By: PI/FS		
Company: ACG		

		Reference Number	569021-4	569021-5	569021-6	
		Sample Date	Aug 21, 2007	Aug 23, 2007	Aug 23, 2007	
		Sample Location				
		Sample Description	CMC-10	CMC-07	CMC-U1	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	12100	9750	6960	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Barium	Strong Acid Extractable	ug/g	40.5	46.5	32.1	0.03
Beryllium	Strong Acid Extractable	ug/g	0.66	1.57	0.33	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.5	0.56	0.2	0.05
Calcium	Strong Acid Extractable	ug/g	3410	2670	2220	2
Chromium	Strong Acid Extractable	ug/g	20.2	8.83	9.90	0.04
Cobalt	Strong Acid Extractable	ug/g	7.94	4.5	4.4	0.05
Copper	Strong Acid Extractable	ug/g	14.2	11.9	5.66	0.05
Iron	Strong Acid Extractable	ug/g	24900	13000	16300	1
Lead	Strong Acid Extractable	ug/g	13.7	10.1	14.1	0.3
Lithium	Strong Acid Extractable	ug/g	35.5	22.6	27.3	0.1
Magnesium	Strong Acid Extractable	ug/g	5160	2090	3080	1
Manganese	Strong Acid Extractable	ug/g	395	889	326	0.3
Mercury	Strong Acid Extractable	ug/g	0.016	0.047	0.008	0.003
Molybdenum	Strong Acid Extractable	ug/g	1.0	3.2	6.73	0.05
Nickel	Strong Acid Extractable	ug/g	19.4	4.9	6.45	0.1
Phosphorus	Strong Acid Extractable	ug/g	413	567	398	0.5
Potassium	Strong Acid Extractable	ug/g	1720	817	1220	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	97	51	33	1
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	108	69	64	1
Strontium	Strong Acid Extractable	ug/g	27.8	24.8	12.2	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.6	0.4	0.6	0.2
Titanium	Strong Acid Extractable	ug/g	433	148	337	0.05
Vanadium	Strong Acid Extractable	ug/g	22.0	17.9	20.3	0.1
Zinc	Strong Acid Extractable	ug/g	172	51.1	71.8	0.1
Zirconium	Strong Acid Extractable	ug/g	0.81	1.2	0.56	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.5	7.2	7.4	0.5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 569021
Report To: Access Mining Consultants Ltd.	ID: CMC-07-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart Baseline	Date Received: Aug 24, 2007
151 Industrial Road	Location: Silver Hart	Date Reported: Aug 31, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1039752
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code: CMC-07-01	
Sampled By: PI/FS		
Company: ACG		

		Reference Number	569021-7	569021-8	569021-9	
		Sample Date	Aug 22, 2007	Aug 22, 2007	Aug 22, 2007	
		Sample Location				
		Sample Description	CMC-OC2	CMC-06	CMC-OC3	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	4240	8690	11200	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	<0.2	1.6	<0.2	0.2
Barium	Strong Acid Extractable	ug/g	25.7	44.2	90.7	0.03
Beryllium	Strong Acid Extractable	ug/g	0.23	0.66	1.03	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.09	0.4	0.75	0.05
Calcium	Strong Acid Extractable	ug/g	1180	2370	3310	2
Chromium	Strong Acid Extractable	ug/g	3.03	14.0	10.9	0.04
Cobalt	Strong Acid Extractable	ug/g	1.9	6.46	4.5	0.05
Copper	Strong Acid Extractable	ug/g	2.1	7.63	10.1	0.05
Iron	Strong Acid Extractable	ug/g	8220	22200	14100	1
Lead	Strong Acid Extractable	ug/g	3.5	9.6	21.4	0.3
Lithium	Strong Acid Extractable	ug/g	16.9	28.6	34.0	0.1
Magnesium	Strong Acid Extractable	ug/g	2000	3620	3440	1
Manganese	Strong Acid Extractable	ug/g	99.9	781	229	0.3
Mercury	Strong Acid Extractable	ug/g	0.006	0.023	0.040	0.003
Molybdenum	Strong Acid Extractable	ug/g	0.2	0.63	1.2	0.05
Nickel	Strong Acid Extractable	ug/g	2.9	13.2	6.57	0.1
Phosphorus	Strong Acid Extractable	ug/g	293	215	629	0.5
Potassium	Strong Acid Extractable	ug/g	845	642	1520	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	24	43	58	1
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	33	118	91	1
Strontium	Strong Acid Extractable	ug/g	7.61	22.1	34.3	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.7	0.6	1.3	0.2
Titanium	Strong Acid Extractable	ug/g	224	168	328	0.05
Vanadium	Strong Acid Extractable	ug/g	11.5	17.1	21.9	0.1
Zinc	Strong Acid Extractable	ug/g	41.1	90.8	141	0.1
Zirconium	Strong Acid Extractable	ug/g	0.75	0.78	1.9	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.4	7.6	6.6	0.5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 569021
Report To: Access Mining Consultants Ltd.	ID: CMC-07-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart Baseline	Date Received: Aug 24, 2007
151 Industrial Road	Location: Silver Hart	Date Reported: Aug 31, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1039752
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code: CMC-07-01	
Sampled By: PI/FS		
Company: ACG		

		Reference Number	569021-10	569021-11	569021-12	
		Sample Date	Aug 22, 2007	Aug 23, 2007	Aug 23, 2007	
		Sample Location				
		Sample Description	CMC-M1	CMC-11	CMC-M2	
		Matrix	Soil	Soil	Soil	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	4380	17400	4440	1
Antimony	Strong Acid Extractable	ug/g	<0.5	6.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	<0.2	57.1	<0.2	0.2
Barium	Strong Acid Extractable	ug/g	32.0	86.8	33.4	0.03
Beryllium	Strong Acid Extractable	ug/g	0.28	1.37	0.29	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	1.4	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.1	6.71	0.2	0.05
Calcium	Strong Acid Extractable	ug/g	1270	3660	1250	2
Chromium	Strong Acid Extractable	ug/g	2.13	29.9	2.27	0.04
Cobalt	Strong Acid Extractable	ug/g	2.2	22.8	2.6	0.05
Copper	Strong Acid Extractable	ug/g	2.7	56.4	3.6	0.05
Iron	Strong Acid Extractable	ug/g	10700	38600	11600	1
Lead	Strong Acid Extractable	ug/g	3.5	205	7.3	0.3
Lithium	Strong Acid Extractable	ug/g	17.0	45.7	19.2	0.1
Magnesium	Strong Acid Extractable	ug/g	1800	7580	2150	1
Manganese	Strong Acid Extractable	ug/g	305	1600	425	0.3
Mercury	Strong Acid Extractable	ug/g	0.005	0.016	0.005	0.003
Molybdenum	Strong Acid Extractable	ug/g	1.1	3.6	0.49	0.05
Nickel	Strong Acid Extractable	ug/g	1.9	40.5	2.2	0.1
Phosphorus	Strong Acid Extractable	ug/g	303	504	319	0.5
Potassium	Strong Acid Extractable	ug/g	798	4100	1180	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	28	54	34	1
Silver	Strong Acid Extractable	ug/g	<0.2	2.7	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	31	86	33	1
Strontium	Strong Acid Extractable	ug/g	11.1	28.5	9.60	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	0.6	4.0	0.8	0.2
Titanium	Strong Acid Extractable	ug/g	224	393	250	0.05
Vanadium	Strong Acid Extractable	ug/g	14.6	33.1	14.4	0.1
Zinc	Strong Acid Extractable	ug/g	39.1	5200	76.3	0.1
Zirconium	Strong Acid Extractable	ug/g	0.47	1.2	0.65	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.0	7.7	7.8	0.5

Analytical Report

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	569021
Report To:	Access Mining Consultants Ltd.	ID:	CMC-07-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart Baseline	Date Received:	Aug 24, 2007
	151 Industrial Road	Location:	Silver Hart	Date Reported:	Aug 31, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1039752
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:	CMC-07-01		
Sampled By:	PI/FS				
Company:	ACG				

Approved by:

Walter Brandl
Operations Manager - Surrey

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-07-01
 # 3 Calcite Business Centre Name: Silver Hart Baseline
 151 Industrial Road Location: Silver Hart
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code: CMC-07-01
 Sampled By: PI/FS
 Company: ACG

Lot ID: **569021**
 Control Number:
 Date Received: Aug 24, 2007
 Date Reported: Aug 31, 2007
 Report Number: 1039752

Metals Strong Acid Digestion

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	ug/g	<1	0	-3	3	yes
Antimony	ug/g	<0.5	0.0	-0.0	0.0	yes
Arsenic	ug/g	0.2	0.0	-0.0	0.0	yes
Barium	ug/g	0.04	0.00	-0.03	0.03	yes
Beryllium	ug/g	<0.01	0.00	-0.00	0.00	yes
Bismuth	ug/g	<0.5	0.0	-0.0	0.0	yes
Cadmium	ug/g	<0.05	0.00	-0.00	0.00	yes
Calcium	ug/g	<2	0	-6	6	yes
Chromium	ug/g	<0.04	0.00	-0.00	0.00	yes
Cobalt	ug/g	<0.05	0.00	-0.00	0.00	yes
Copper	ug/g	<0.05	0.00	-0.00	0.00	yes
Iron	ug/g	1	0	-6	6	yes
Lead	ug/g	<0.3	0.0	-0.0	0.0	yes
Lithium	ug/g	<0.1	0.0	-0.0	0.0	yes
Magnesium	ug/g	<1	0	-0	0	yes
Manganese	ug/g	<0.3	0.0	-0.1	0.1	yes
Mercury	ug/g	<0.003	0.000	-0.030	0.030	yes
Molybdenum	ug/g	<0.05	0.00	-0.00	0.00	yes
Nickel	ug/g	<0.1	0.000	-0.003	0.003	yes
Phosphorus	ug/g	0.6	0.0	-0.1	0.1	yes
Potassium	ug/g	<5	0	-1	1	yes
Selenium	ug/g	<0.3	0.0	-0.0	0.0	yes
Silicon	ug/g	<1	0	-0	0	yes
Silver	ug/g	<0.2	0.0	-0.0	0.0	yes
Sodium	ug/g	<1	0	-0	0	yes
Strontium	ug/g	<0.02	0.00	-0.00	0.00	yes
Thallium	ug/g	<0.3	0.0	-0.0	0.0	yes
Tin	ug/g	<0.2	0.0	-0.0	0.0	yes
Titanium	ug/g	<0.05	0.00	-0.00	0.00	yes
Vanadium	ug/g	<0.1	0.0	-0.0	0.0	yes
Zinc	ug/g	0.2	0.0	-0.0	0.0	yes
Zirconium	ug/g	<0.05	0.00	-0.00	0.00	yes

Material Used: Metals Blank - soils

Date Acquired: August 27, 2007

Acquired By: Kelly Restiaux

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	ug/g	12200	12200	30	10	yes
Antimony	ug/g	2.5	2.8	30.0	3.0	yes
Arsenic	ug/g	0.5	0.5	30.0	1.0	yes
Barium	ug/g	90.7	91.0	30.00	1.00	yes
Beryllium	ug/g	1.03	0.99	30.00	0.50	yes
Cadmium	ug/g	2.7	2.7	30.00	0.50	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-07-01
 # 3 Calcite Business Centre Name: Silver Hart Baseline
 151 Industrial Road Location: Silver Hart
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code: CMC-07-01
 Sampled By: PI/FS
 Company: ACG

Lot ID: **569021**
 Control Number:
 Date Received: Aug 24, 2007
 Date Reported: Aug 31, 2007
 Report Number: 1039752

Metals Strong Acid Digestion - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	ug/g	3310	3580	30	10	yes
Chromium	ug/g	56.4	59.4	30.00	1.00	yes
Cobalt	ug/g	4.5	4.8	30.00	0.50	yes
Copper	ug/g	794	813	30.00	1.00	yes
Iron	ug/g	14100	14100	30	10	yes
Lead	ug/g	48.0	48.3	30.0	0.5	yes
Magnesium	ug/g	3440	3570	30	10	yes
Manganese	ug/g	643	664	30.0	1.0	yes
Molybdenum	ug/g	9.87	10.9	30.00	0.50	yes
Nickel	ug/g	6.57	6.43	30.000	0.500	yes
Phosphorus	ug/g	629	629	30.0	10.0	yes
Potassium	ug/g	1520	1590	30	10	yes
Selenium	ug/g	5.0	5.3	30.0	0.5	yes
Silver	ug/g	3.0	3.1	30.0	0.5	yes
Sodium	ug/g	91	86	30	1	yes
Strontium	ug/g	34.3	33.1	30.00	1.00	yes
Tin	ug/g	20.1	20.2	30.0	1.0	yes
Vanadium	ug/g	21.9	23.2	30.0	1.0	yes
Zinc	ug/g	472	490	30.0	1.0	yes
Zirconium	ug/g	2.8	3.5	30.00	0.50	yes

Material Used: Metals Int. Duplicate - soils

Date Acquired: August 27, 2007

Acquired By: Kelly Restiaux

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	ug/g	15700	14000	11000	17000	yes
Antimony	ug/g	9.9	10.0	4.0	16.0	yes
Arsenic	ug/g	85.9	91.4	72.2	110.6	yes
Barium	ug/g	204	185.00	140.00	230.00	yes
Beryllium	ug/g	0.98	1.03	0.73	1.33	yes
Cadmium	ug/g	40.5	40.90	32.92	48.88	yes
Calcium	ug/g	19600	20400	14400	26400	yes
Chromium	ug/g	18.9	18.00	15.00	21.00	yes
Cobalt	ug/g	7.73	7.30	4.75	9.85	yes
Copper	ug/g	106	108.00	85.20	130.80	yes
Iron	ug/g	24700	22500	16500	28500	yes
Lead	ug/g	1050	1097.0	836.0	1358.0	yes
Magnesium	ug/g	7240	7500	6900	8100	yes
Manganese	ug/g	527	515.0	365.0	665.0	yes
Mercury	ug/g	6.25	6.110	3.740	8.480	yes
Molybdenum	ug/g	0.91	1.02	0.72	1.32	yes
Nickel	ug/g	15.2	17.000	13.430	20.570	yes
Phosphorus	ug/g	656	677.0	515.0	839.0	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-07-01
 # 3 Calcite Business Centre Name: Silver Hart Baseline
 151 Industrial Road Location: Silver Hart
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code: CMC-07-01
 Sampled By: PI/FS
 Company: ACG

Lot ID: **569021**
 Control Number:
 Date Received: Aug 24, 2007
 Date Reported: Aug 31, 2007
 Report Number: 1039752

Metals Strong Acid Digestion - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Potassium	ug/g	4070	4050	2850	5250	yes
Selenium	ug/g	<0.3	1.2	-0.3	2.7	yes
Silver	ug/g	2.3	2.0	-4.3	8.3	yes
Sodium	ug/g	196	226	76	376	yes
Strontium	ug/g	44.5	40.00	28.00	52.00	yes
Thallium	ug/g	2.0	1.0	-0.5	2.5	yes
Tin	ug/g	2.3	2.3	1.5	3.1	yes
Titanium	ug/g	153	281.00	191.00	371.00	yes
Vanadium	ug/g	41.2	44.0	33.5	54.5	yes
Zinc	ug/g	294	320.0	245.0	395.0	yes

Material Used: S0529 NIST 2711 - metals in soil

Date Acquired: August 27, 2007

Acquired By: Kelly Restiaux

Soil Acidity

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.0	100.1	99.6 - 100.8	yes

Material Used: CC - pH

Date Acquired: August 27, 2007

Acquired By: Heather Johnson

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH	pH	7.4	7.4	0.2	0.1	yes

Material Used: Surrey - Int. Duplicate 1

Date Acquired: August 27, 2007

Acquired By: Heather Johnson

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH	pH	6.0	5.8	5.7	5.9	yes

Material Used: Soil pH 98 FS-015

Date Acquired: August 27, 2007

Acquired By: Heather Johnson

Methodology and Notes

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	569021
Report To:	Access Mining Consultants Ltd.	ID:	CMC-07-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart Baseline	Date Received:	Aug 24, 2007
	151 Industrial Road	Location:	Silver Hart	Date Reported:	Aug 31, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1039752
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:	CMC-07-01		
Sampled By:	PI/FS				
Company:	ACG				

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Metals (Strong Acid Leachable) in soils	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	27-Aug-07	BTG Surrey
pH and EC in Soil - 1:2 (Surrey)	McKeague	* 1:2 Soil:Water Ratio, 4.12	27-Aug-07	BTG Surrey

** Bodycote method(s) based on reference method*

References

B.C.M.O.E	B.C. Ministry of Environment
McKeague	Manual on Soil Sampling and Methods of Analysis

Comments:

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



Control Number

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To:	Copy of Report To:	Copy of Invoice:
Company:	Access Consulting Group		Company:	
Address:	#3 Calcite Business Centre-151 Industrial Road Whitehorse, YT Y1A 2V3	QA/QC Report ☒	Address:	Mail invoice to this address for approval ☐
Attention:	Paul Inglis	Report Result:	Attention:	Report Result:
Phone:	867-668-6364	Fax ☐	Phone:	Fax ☐
Fax:	867-667-6680	Mail ☐	Fax:	Mail ☐
Cell:		Courier ☐	Cell:	Courier ☐
Email:	paul@accessconsulting.ca	Email ☒	Email:	Email ☒

Information to be included on Report and Invoice		RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses ☐ or ☐		Sample Custody (Please Print)	
Project ID: CMC-06-01		Date required:		Sampled by: PI/JM Date: 2007/07/12-13	
Project Name: Silver Hart		Signature:		Company: ACG Signature:	
Project Location: Silver Hart Property		Required on: all analyses ☐ or ☐		Relinquished by: P. Inglis	
Legal Location:		☐ or ☐		Company: ACG Date: 2007/07/13	
PO#: will email		Date required:		Waybill number:	
Proj. Acct. Code:		Signature:		Received by: [Signature]	
Agreement ID:		Norwest Authorization:		Company: BT6 Date: July 16 3:30	
				Processed by:	
				Norwest Labs Date	

[illegible]

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page ____ of ____
##

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Approval Status:	Approved
	# 3 Calcite Business Centre	Name:	Silver Hart	Invoice Frequency:	by Lot
	151 Industrial Road	Location:	Silver Hart Property	COD Status:	
	Whitehorse, YT, Canada	LSD:		Control Number:	
	Y1A 2V3	P.O.:		Date Received:	Jul 16, 2007
Attn:	Paul Inglis	Acct code:		Date Reported:	Jul 23, 2007
Sampled By:	PI/JM			Report Number:	1023840
Company:	ACG				

Contact	Company	Address
Scott Keesey	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca

Copies	Delivery	Format
1	Email - Single Report	PDF
1	Email - Single Report	Standard Crosstab

Contact	Company	Address
Paul Inglis	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: paul@accessconsulting.ca

	Copies	Delivery	Format
M	1	Post	
	1	Email - Single Report	PDF
	1	Email - Single Report	Standard Crosstab

_____ PAGES IN THIS TRANSMISSION

Notes To Clients:

- Samples 559841-1 to 7 exceeded recommended holding time for nitrate/nitrite analysis.
- Some trace total metal results were less than dissolved metal results for sample 559841-1 and 8. The results were confirmed.
- Some MS total metal results were less than dissolved metal results for sample 559841-1 to 7. The results were verified and are within the method uncertainty. July 23/07

Reports associated with this LotId/Format/Report DateId/Format/Report DateId/Format/Report Date

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Bill To: Access Mining Consultants Ltd. Project:
Report To: Access Mining Consultants Ltd. ID: CMC-06-01
3 Calcite Business Centre Name: Silver Hart
151 Industrial Road Location: Silver Hart Property
Whitehorse, YT, Canada LSD:
Y1A 2V3 P.O.:
Attn: Paul Inglis Acct code:
Sampled By: PI/JM
Company: ACG

Lot ID: **559841**
Control Number:
Date Received: Jul 16, 2007
Date Reported: Jul 23, 2007
Report Number: 1023840

Sample Disposal Date: August 22, 2007

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ Loomis

☐ Purolator

☐ Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.31	0.15	0.17	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.02	0.03	0.02	0.01
Organic Carbon	Total Nonpurgeable	mg/L	5.0	0.6	5.3	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	4.8	<0.5	5.0	0.5
Inorganic carbon	Total	mg/L	6.0	37.2	3.4	0.5
Metals Dissolved						
Silicon	Dissolved	mg/L	3.61	4.40	3.28	0.05
Sulfur	Dissolved	mg/L	1.1	39.9	1.2	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.037	0.005	0.091	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0051	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0151	0.0002	0.0002
Barium	Dissolved	mg/L	0.006	0.011	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	0.003	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	0.0102	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	0.0003	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0008	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.01	<0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	0.004	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	0.0042	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.079	0.420	0.050	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	0.0021	0.0013	0.0005
Uranium	Dissolved	mg/L	0.001	0.0228	0.0007	0.0005
Vanadium	Dissolved	mg/L	<0.0001	0.0012	0.0003	0.0001
Zinc	Dissolved	mg/L	0.001	6.87	0.007	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	6.8	74.8	4.9	0.2

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.6	14.9	0.4	0.1
Manganese	Total	mg/L	<0.005	0.157	<0.005	0.005
Potassium	Total	mg/L	<0.4	1.0	<0.4	0.4
Silicon	Total	mg/L	3.11	4.34	3.10	0.05
Sodium	Total	mg/L	2.1	2.6	1.7	0.4
Sulfur	Total	mg/L	1.0	39.5	1.1	0.3
Mercury	Total	ug/L	<0.02	<0.02	<0.02	0.02
Aluminum	Total	mg/L	0.039	0.011	0.125	0.005
Antimony	Total	mg/L	<0.0002	0.0050	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	0.0165	<0.0002	0.0002
Barium	Total	mg/L	0.006	0.012	0.007	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.004	0.006	<0.002	0.002
Cadmium	Total	mg/L	0.00001	0.0106	<0.00001	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	0.0005	<0.0001	0.0001
Copper	Total	mg/L	<0.001	0.003	<0.001	0.001
Lead	Total	mg/L	0.0003	0.0012	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	0.012	<0.001	0.001
Molybdenum	Total	mg/L	<0.001	0.005	<0.001	0.001
Nickel	Total	mg/L	<0.0005	0.0066	<0.0005	0.0005
Selenium	Total	mg/L	0.0002	0.0008	<0.0002	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.074	0.423	0.048	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	<0.0005	0.0025	0.0027	0.0005
Uranium	Total	mg/L	0.0012	0.0245	0.0007	0.0005
Vanadium	Total	mg/L	0.0002	0.0001	0.0003	0.0001
Zinc	Total	mg/L	0.004	6.52	0.005	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Physical and Aggregate Properties						
Turbidity		NTU	0.1	<0.1	0.3	0.1
Solids	Total Suspended	mg/L	3	<2	<2	1
Colour	True	Colour units	13	<5	35	5
Solids	Total Dissolved	mg/L	44	328	32	5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Routine Water						
pH		6.66	7.58	6.95		
Electrical Conductivity	µS/cm at 25 C	47	496	33	1	
Calcium	Dissolved mg/L	7.2	75.5	5.0	0.2	
Magnesium	Dissolved mg/L	0.6	14.8	0.4	0.1	
Sodium	Dissolved mg/L	2.1	2.5	1.8	0.4	
Potassium	Dissolved mg/L	<0.4	1	<0.4	0.4	
Iron	Dissolved mg/L	0.01	<0.01	0.05	0.01	
Manganese	Dissolved mg/L	<0.005	0.153	<0.005	0.005	
Chloride	Dissolved mg/L	0.1	<0.1	<0.1	0.1	
Nitrate - N	Dissolved mg/L	0.2	<0.1	<0.1	0.1	
Nitrite - N	Dissolved mg/L	<0.05	<0.05	<0.05	0.05	
Nitrate and Nitrite - N	mg/L	0.03	0.06	<0.02	0.02	
Sulfate (SO4)	Dissolved mg/L	2.9	3.0	3.0	0.1	
Hydroxide	mg/L	<5	<5	<5	5	
Carbonate	mg/L	<6	<6	<6	6	
Bicarbonate	mg/L	25	184	15	5	
T-Alkalinity	as CaCO3 mg/L	21	151	12	5	

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.16	0.15	0.15	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.02	0.02	0.02	0.01
Organic Carbon	Total Nonpurgeable	mg/L	4.9	3.7	3.1	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	5.2	4.0	3.5	0.5
Inorganic carbon	Total	mg/L	4.3	5.0	5.9	0.5
Metals Dissolved						
Silicon	Dissolved	mg/L	3.35	2.80	2.79	0.05
Sulfur	Dissolved	mg/L	1.4	1.1	1.1	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.066	0.031	0.028	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0002	0.0002
Barium	Dissolved	mg/L	0.006	0.005	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.067	0.065	0.080	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.001	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0006	0.0011	0.0011	0.0005
Vanadium	Dissolved	mg/L	0.0007	0.0003	0.0002	0.0001
Zinc	Dissolved	mg/L	0.005	0.002	<0.001	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	6.3	6.7	7.6	0.2

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.6	0.6	0.7	0.1
Manganese	Total	mg/L	<0.005	<0.005	0.006	0.005
Potassium	Total	mg/L	<0.4	<0.4	<0.4	0.4
Silicon	Total	mg/L	3.23	2.82	2.84	0.05
Sodium	Total	mg/L	1.7	1.8	1.9	0.4
Sulfur	Total	mg/L	1.4	1.0	1.1	0.3
Mercury	Total	ug/L	<0.02	0.18	1.19	0.02
Aluminum	Total	mg/L	0.099	0.040	0.043	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	<0.0002	0.0002	0.0002
Barium	Total	mg/L	0.008	0.007	0.006	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.002	<0.002	0.002	0.002
Cadmium	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	0.002	<0.001	<0.001	0.001
Lead	Total	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.001	<0.001	<0.001	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Total	mg/L	0.0002	<0.0002	0.0002	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.069	0.063	0.075	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0017	<0.0005	0.0006	0.0005
Uranium	Total	mg/L	0.0008	0.0012	0.0013	0.0005
Vanadium	Total	mg/L	0.0003	0.0002	0.0002	0.0001
Zinc	Total	mg/L	0.006	0.004	0.002	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Physical and Aggregate Properties						
Turbidity		NTU	<0.1	<0.1	<0.1	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Colour	True	Colour units	29	17	17	5
Solids	Total Dissolved	mg/L	40	34	46	5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Routine Water						
pH			7.03	7.04	7.02	
Electrical Conductivity		µS/cm at 25 C	42	44	49	1
Calcium	Dissolved	mg/L	4.0	6.8	7.6	0.2
Magnesium	Dissolved	mg/L	0.5	0.6	0.7	0.1
Sodium	Dissolved	mg/L	1.3	1.8	1.3	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4
Iron	Dissolved	mg/L	<0.01	0.02	0.03	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	0.006	0.005
Chloride	Dissolved	mg/L	0.2	0.2	0.1	0.1
Nitrate - N	Dissolved	mg/L	<0.1	<0.1	<0.1	0.1
Nitrite - N	Dissolved	mg/L	<0.05	<0.05	<0.05	0.05
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Sulfate (SO4)	Dissolved	mg/L	3.9	2.8	3.0	0.1
Hydroxide		mg/L	<5	<5	<5	5
Carbonate		mg/L	<6	<6	<6	6
Bicarbonate		mg/L	19	25	27	5
T-Alkalinity	as CaCO3	mg/L	15	20	22	5

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Reference Number 559841-7
 Sample Date Jul 13, 2007
 Sample Location
 Sample Description CMC-U1
 Matrix Water

Analyte	Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	<0.05			0.05
Kjeldahl Nitrogen	Total mg/L	0.24			0.06
Phosphorus	Total mg/L	<0.05			0.05
Orthophosphate-P	Dissolved mg/L	0.03			0.01
Organic Carbon	Total Nonpurgeable mg/L	7.4			0.5
Organic Carbon	Dissolved Nonpurgeable mg/L	6.7			0.5
Inorganic carbon	Total mg/L	5.0			0.5
Physical and Aggregate Properties					
Turbidity	NTU	<0.1			0.1
Solids	Total Suspended mg/L	<2			1
Colour	True Colour units	36			5
Solids	Total Dissolved mg/L	86			5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9	
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Dissolved						
Silicon	Dissolved	mg/L	4.23	4.18	3.87	0.05
Sulfur	Dissolved	mg/L	3.9	33.0	14.6	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.053	0.165	0.013	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0029	0.0012	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0031	0.0006	0.0002
Barium	Dissolved	mg/L	0.007	0.017	0.015	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	0.004	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	0.00373	0.00041	0.00001
Chromium	Dissolved	mg/L	<0.0005	0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	0.0004	0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	0.001	0.003	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0013	0.0002	0.0001
Lithium	Dissolved	mg/L	0.001	0.008	0.003	0.001
Molybdenum	Dissolved	mg/L	0.011	0.004	0.002	0.001
Nickel	Dissolved	mg/L	<0.0005	0.0042	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.096	0.340	0.181	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0008	0.0032	0.0010	0.0005
Uranium	Dissolved	mg/L	<0.0005	0.0117	0.0020	0.0005
Vanadium	Dissolved	mg/L	0.0004	0.0027	0.0006	0.0001
Zinc	Dissolved	mg/L	<0.001	2.36	0.266	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	18.4	61.0	28.4	0.2
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.7	12.1	4.9	0.1
Manganese	Total	mg/L	<0.005	0.012	<0.005	0.005
Potassium	Total	mg/L	<0.4	0.9	0.5	0.4
Silicon	Total	mg/L	4.20	3.84	3.66	0.05
Sodium	Total	mg/L	1.7	2.8	2.0	0.4
Sulfur	Total	mg/L	3.8	33.1	14.4	0.3
Mercury	Total	ug/L	0.06	0.06	0.02	0.02

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9	
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Aluminum	Total	mg/L	0.079	0.330	0.020	0.005
Antimony	Total	mg/L	<0.0002	0.0029	0.0011	0.0002
Arsenic	Total	mg/L	<0.0002	0.0031	0.0007	0.0002
Barium	Total	mg/L	0.007	0.022	0.016	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.003	0.006	0.003	0.002
Cadmium	Total	mg/L	<0.00001	0.00399	0.00042	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Copper	Total	mg/L	<0.001	0.006	<0.001	0.001
Lead	Total	mg/L	<0.0001	0.0027	0.0002	0.0001
Lithium	Total	mg/L	0.002	0.008	0.004	0.001
Molybdenum	Total	mg/L	0.012	0.004	0.002	0.001
Nickel	Total	mg/L	<0.0005	0.0053	<0.0005	0.0005
Selenium	Total	mg/L	0.0003	0.0007	0.0003	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.094	0.331	0.177	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0018	0.0047	0.0013	0.0005
Uranium	Total	mg/L	<0.0005	0.0136	0.0023	0.0005
Vanadium	Total	mg/L	0.0002	0.0035	0.0005	0.0001
Zinc	Total	mg/L	0.003	2.44	0.247	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Routine Water						
pH			7.31			
Electrical Conductivity		µS/cm at 25 C	106	420	200	1
Calcium	Dissolved	mg/L	19.4	70.5	30.1	0.2
Magnesium	Dissolved	mg/L	0.7	11.8	5.0	0.1
Sodium	Dissolved	mg/L	1.7	3.2	2.2	0.4
Potassium	Dissolved	mg/L	<0.4	0.9	0.5	0.4
Iron	Dissolved	mg/L	0.03	0.04	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	0.014	<0.005	0.005
Chloride	Dissolved	mg/L	<0.1			0.1
Nitrate - N	Dissolved	mg/L	<0.1			0.1
Nitrite - N	Dissolved	mg/L	<0.05			0.05
Nitrate and Nitrite - N		mg/L	<0.02			0.02

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007
		Sample Location			
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2
		Matrix	Water	Water	Water
Analyte	Units	Results	Results	Results	Detection Limit
Routine Water - Continued					
Sulfate (SO4)	Dissolved	mg/L	12.0		0.1
Hydroxide		mg/L	<5		5
Carbonate		mg/L	<6		6
Bicarbonate		mg/L	50		5
T-Alkalinity	as CaCO3	mg/L	41		5

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Reference Number 559841-10
 Sample Date Jul 12, 2007
 Sample Location
 Sample Description Waste Rock Edge
 Matrix Water

Analyte	Units	Results	Results	Results	Detection Limit
Metals Total					
Calcium	Total	mg/L	62.0		0.2
Iron	Total	mg/L	<0.1		0.1
Magnesium	Total	mg/L	12.3		0.1
Manganese	Total	mg/L	0.011		0.005
Potassium	Total	mg/L	0.9		0.4
Silicon	Total	mg/L	3.75		0.05
Sodium	Total	mg/L	2.4		0.4
Sulfur	Total	mg/L	34.0		0.3
Mercury	Total	ug/L	<0.02		0.02
Aluminum	Total	mg/L	0.025		0.005
Antimony	Total	mg/L	0.0030		0.0002
Arsenic	Total	mg/L	0.0034		0.0002
Barium	Total	mg/L	0.015		0.001
Beryllium	Total	mg/L	<0.0001		0.0001
Bismuth	Total	mg/L	<0.0005		0.0005
Boron	Total	mg/L	0.004		0.002
Cadmium	Total	mg/L	0.00402		0.00001
Chromium	Total	mg/L	<0.0005		0.0005
Cobalt	Total	mg/L	<0.0001		0.0001
Copper	Total	mg/L	<0.001		0.001
Lead	Total	mg/L	0.0008		0.0001
Lithium	Total	mg/L	0.008		0.001
Molybdenum	Total	mg/L	0.004		0.001
Nickel	Total	mg/L	<0.0005		0.0005
Selenium	Total	mg/L	0.0005		0.0002
Silver	Total	mg/L	<0.0001		0.0001
Strontium	Total	mg/L	0.342		0.001
Thallium	Total	mg/L	<0.00005		0.00005
Tin	Total	mg/L	<0.001		0.001
Titanium	Total	mg/L	0.0024		0.0005
Uranium	Total	mg/L	0.0142		0.0005
Vanadium	Total	mg/L	0.0002		0.0001
Zinc	Total	mg/L	2.48		0.001
Zirconium	Total	mg/L	<0.001		0.001

Analytical Report

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart	Date Received:	Jul 16, 2007
	151 Industrial Road	Location:	Silver Hart Property	Date Reported:	Jul 23, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1023840
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:			
Sampled By:	PI/JM				
Company:	ACG				

Approved by:

Walter Brandl
Operations Manager - Surrey

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

null

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	mS/cm	0.00130	0.001	-0.008	0.010	yes
Material Used:	Edmonton Method Blank					
Date Acquired:	July 19, 2007					
Acquired By:	Linda Lam					

Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	<0.05	0.00	-0.08	0.08	yes
Nitrogen	mg/L	<0.06	0.02	-0.04	0.07	yes
Phosphorus	mg/L	<0.05	0.03	-0.04	0.09	yes
Orthophosphate-P	mg/L	<0.01	0.01	-0.04	0.06	yes
Organic Carbon	mg/L	<0.5	0.0	-0.6	0.7	yes
Inorganic carbon	mg/L	<0.5	-0.0	-0.7	0.6	yes
Material Used:	Edmonton Method Blank					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mg/L	4.17	4.14	9.99	0.10	yes
Nitrogen	mg/L	17.6	16.6	9.99	0.12	yes
Phosphorus	mg/L	0.11	0.13	9.99	0.20	yes
Orthophosphate-P	mg/L	0.04	0.04	9.99	0.05	yes
Organic Carbon	mg/L	4.8	4.7	10.0	1.0	yes
Inorganic carbon	mg/L	6.0	6.0	10.0	1.0	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	3.17	3.06	2.88	3.24	yes
Nitrogen	mg/L	123	120.90	108.54	133.26	yes
Phosphorus	mg/L	8.19	8.03	7.58	8.48	yes
Organic Carbon	mg/L	122	117.0	101.4	132.6	yes
Inorganic carbon	mg/L	110	101.5	89.5	113.5	yes
Material Used:	Water High					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					
Ammonium - N	mg/L	0.82	0.81	0.75	0.87	yes
Nitrogen	mg/L	15.3	14.70	13.20	16.20	yes
Phosphorus	mg/L	2.02	1.97	1.79	2.15	yes
Orthophosphate-P	mg/L	0.41	0.41	0.35	0.47	yes
Organic Carbon	mg/L	15.8	15.1	12.8	17.4	yes
Inorganic carbon	mg/L	17.1	15.9	14.1	17.7	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Inorganic Nonmetallic Parameters - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Water Low						
Date Acquired: July 19, 2007						
Acquired By: Stef Pavlyshyn						
Nitrogen	mg/L	1.12	1.02	0.87	1.17	yes
Orthophosphate-P	mg/L	0.07	0.08	0.07	0.09	yes
Organic Carbon	mg/L	3.5	3.1	2.3	3.8	yes
Inorganic carbon	mg/L	3.4	3.6	2.8	4.3	yes
Material Used: Water Trace						
Date Acquired: July 19, 2007						
Acquired By: Stef Pavlyshyn						

Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	<0.05	0.01	-0.04	0.06	yes
Sulfur	mg/L	<0.3	0.0	-0.3	0.3	yes
Aluminum	ug/L	<5	0	-5	5	yes
Antimony	ug/L	<0.2	-0.4	-4.6	3.8	yes
Arsenic	ug/L	<0.2	0.0	-0.2	0.2	yes
Barium	ug/L	<1	0	-9	9	yes
Beryllium	ug/L	<0.1	0.0	-0.0	0.1	yes
Bismuth	ug/L	<0.5	0.0	-0.5	0.6	yes
Boron	ug/L	<2	0	-1	1	yes
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	yes
Chromium	ug/L	<0.5	-0.0	-0.3	0.3	yes
Cobalt	ug/L	<0.1	0.0	-0.1	0.1	yes
Copper	ug/L	<1	0	-1	1	yes
Lead	ug/L	<0.1	0.0	-0.1	0.1	yes
Lithium	ug/L	<1	0	-1	1	yes
Molybdenum	ug/L	<1	0	-1	1	yes
Nickel	ug/L	<0.5	0.0	-0.5	0.5	yes
Selenium	ug/L	<0.2	-0.0	-0.2	0.2	yes
Silver	ug/L	<0.1	-0.0	-0.1	0.1	yes
Strontium	ug/L	<1	0	-1	1	yes
Thallium	ug/L	<0.05	0.00	-0.05	0.05	yes
Tin	ug/L	<1	0	-1	1	yes
Titanium	ug/L	<0.5	0.0	-0.5	0.5	yes
Uranium	ug/L	<0.5	-0.0	-0.5	0.5	yes
Vanadium	ug/L	<0.1	0.0	-0.1	0.1	yes
Zinc	ug/L	1	1	-0	2	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Edmonton Method Blank					
Date Acquired:	July 20, 2007					
Acquired By:	Alexsandra Robert					
Mercury	ug/L	<0.02	0.00	-19.98	19.98	yes
Material Used:	Metals Blank - water - total					
Date Acquired:	July 20, 2007					
Acquired By:	Marie England					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mg/L	4.31	4.30	9.99	0.01	yes
Sulfur	mg/L	33.0	32.9	10.0	0.1	yes
Aluminum	ug/L	5	<5	10	11	yes
Antimony	ug/L	<0.2	<0.2	10.0	0.4	yes
Arsenic	ug/L	0.7	0.5	10.0	0.4	yes
Barium	ug/L	15	16	10	2	yes
Beryllium	ug/L	<0.1	<0.1	10.0	0.2	yes
Bismuth	ug/L	<0.5	<0.5	10.0	1.1	yes
Boron	ug/L	50	48	10	4	yes
Cadmium	ug/L	<0.01	0.01	9.99	0.02	yes
Chromium	ug/L	1.5	1.3	10.0	1.1	yes
Cobalt	ug/L	0.3	0.4	10.0	0.2	yes
Copper	ug/L	2	1	10	2	yes
Lead	ug/L	<0.1	<0.1	10.0	0.2	yes
Lithium	ug/L	<1	<1	10	2	yes
Molybdenum	ug/L	2	1	10	2	yes
Nickel	ug/L	<0.5	<0.5	10.0	1.1	yes
Selenium	ug/L	1	0.8	10.0	0.4	yes
Silver	ug/L	<0.1	<0.1	10.0	0.2	yes
Strontium	ug/L	68	67	10	2	yes
Thallium	ug/L	<0.05	<0.05	9.99	0.11	yes
Tin	ug/L	<1	<1	10	2	yes
Titanium	ug/L	0.9	<0.5	10.0	1.1	yes
Uranium	ug/L	<0.5	<0.5	10.0	1.1	yes
Vanadium	ug/L	4.8	4.9	10.0	0.2	yes
Zinc	ug/L	20	20	10	2	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	23.9	24.30	21.80	26.80	yes
Sulfur	mg/L	49.2	49.1	44.1	54.1	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Metals High						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Silicon	mg/L	0.49	0.50	0.45	0.55	yes
Sulfur	mg/L	1	1.0	0.7	1.2	yes
Aluminum	ug/L	949	971	851	1091	yes
Antimony	ug/L	42.0	41.4	38.6	44.2	yes
Arsenic	ug/L	41.4	40.4	37.1	43.7	yes
Barium	ug/L	201	199	184	214	yes
Beryllium	ug/L	21.4	19.9	17.2	22.6	yes
Bismuth	ug/L	105	100.8	90.6	111.0	yes
Boron	ug/L	425	396	348	444	yes
Cadmium	ug/L	2.06	2.05	1.75	2.35	yes
Chromium	ug/L	104	99.6	92.1	107.1	yes
Cobalt	ug/L	20.9	20.4	17.4	23.4	yes
Copper	ug/L	202	195	165	225	yes
Lead	ug/L	20.7	20.2	17.2	23.2	yes
Lithium	ug/L	220	199	169	229	yes
Molybdenum	ug/L	202	201	171	231	yes
Nickel	ug/L	98.8	98.7	83.7	113.7	yes
Selenium	ug/L	41.4	40.0	34.0	46.0	yes
Silver	ug/L	21.5	20.8	17.8	23.8	yes
Strontium	ug/L	213	196	166	226	yes
Thallium	ug/L	9.85	10.27	8.77	11.77	yes
Tin	ug/L	189	191	176	206	yes
Titanium	ug/L	102	100.1	85.1	115.1	yes
Uranium	ug/L	93.8	98.4	83.4	113.4	yes
Vanadium	ug/L	19.1	19.3	16.3	22.3	yes
Zinc	ug/L	208	200	182	218	yes
Material Used: Metals Low						
Date Acquired: July 19, 2007						
Acquired By: Aleksandra Robert						
Aluminum	ug/L	54	51	45	58	yes
Antimony	ug/L	2.3	2.1	1.9	2.3	yes
Arsenic	ug/L	2.2	2.0	1.7	2.3	yes
Barium	ug/L	11	10	1	19	yes
Beryllium	ug/L	1.0	1.0	0.8	1.1	yes
Bismuth	ug/L	5.7	5.1	4.5	5.7	yes
Boron	ug/L	22	20	17	23	yes
Cadmium	ug/L	0.11	0.10	0.08	0.12	yes
Chromium	ug/L	5.3	5.0	4.4	5.6	yes
Cobalt	ug/L	1.1	1.0	0.9	1.2	yes
Copper	ug/L	10	10	9	12	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Lead	ug/L	1.0	1.0	0.9	1.2	yes
Lithium	ug/L	10	10	9	12	yes
Molybdenum	ug/L	10	10	9	12	yes
Nickel	ug/L	5.2	5.0	4.2	5.7	yes
Selenium	ug/L	2.0	2.0	1.7	2.3	yes
Silver	ug/L	1.1	1.0	0.9	1.2	yes
Strontium	ug/L	11	10	9	12	yes
Thallium	ug/L	0.52	0.51	0.47	0.56	yes
Tin	ug/L	10	10	8	11	yes
Titanium	ug/L	5.2	5.0	4.3	5.8	yes
Uranium	ug/L	5.4	5.1	4.4	5.9	yes
Vanadium	ug/L	1	1.0	0.9	1.2	yes
Zinc	ug/L	11	11	9	12	yes

Material Used: Metals Trace
 Date Acquired: July 20, 2007
 Acquired By: Alexandra Robert

Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.0	0.0	yes
Iron	mg/L	<0.1	0.0	-0.0	0.0	yes
Magnesium	mg/L	<0.1	-0.0	-0.0	0.0	yes
Manganese	mg/L	<0.005	0.000	-0.001	0.001	yes
Potassium	mg/L	<0.4	0.0	-0.1	0.1	yes
Silicon	mg/L	<0.05	0.01	-0.03	0.04	yes
Sodium	mg/L	<0.4	-0.0	-0.1	0.1	yes
Sulfur	mg/L	<0.3	0.0	-0.1	0.2	yes
Aluminum	ug/L	<5	1	-4	6	yes
Antimony	ug/L	<0.2	0.0	-0.2	0.2	yes
Arsenic	ug/L	<0.2	-0.0	-0.2	0.2	yes
Barium	ug/L	<1	0	-1	1	yes
Beryllium	ug/L	<0.1	0.0	-0.1	0.1	yes
Bismuth	ug/L	<0.5	0.0	-0.5	0.5	yes
Boron	ug/L	<2	1	-1	3	yes
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	yes
Chromium	ug/L	<0.5	-0.2	-0.7	0.3	yes
Cobalt	ug/L	<0.1	-0.0	-0.1	0.1	yes
Copper	ug/L	<1	0	-1	1	yes
Lead	ug/L	<0.1	0.0	-0.1	0.1	yes
Lithium	ug/L	<1	0	-1	1	yes
Molybdenum	ug/L	<1	0	-1	1	yes
Nickel	ug/L	<0.5	0.0	-0.5	0.5	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Selenium	ug/L	<0.2	0.0	-0.2	0.2	yes
Silver	ug/L	<0.1	0.0	-0.1	0.1	yes
Strontium	ug/L	<1	0	-1	1	yes
Thallium	ug/L	<0.05	-0.00	-0.05	0.05	yes
Tin	ug/L	<1	-0	-1	1	yes
Titanium	ug/L	<0.5	0.0	-0.5	0.5	yes
Uranium	ug/L	<0.5	-0.0	-0.5	0.5	yes
Vanadium	ug/L	0.1	0.0	-0.1	0.1	yes
Zinc	ug/L	<1	1	-0	2	yes
Zirconium	ug/L	<1	0	-1	1	yes

Material Used: Edmonton Method Blank

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Mercury	ug/L	<0.02	0.000	-20.010	20.010	yes

Material Used: Metals Blank - water - total

Date Acquired: July 20, 2007

Acquired By: Marie England

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	ug/L	<5	<5	15	11	yes
Antimony	ug/L	<0.2	<0.2	15.0	0.4	yes
Arsenic	ug/L	1.4	1.4	15.0	0.4	yes
Barium	ug/L	12	12	15	2	yes
Beryllium	ug/L	<0.1	<0.1	15.0	0.2	yes
Bismuth	ug/L	<0.5	<0.5	15.0	1.1	yes
Boron	ug/L	42	44	15	4	yes
Cadmium	ug/L	<0.01	<0.01	15.00	0.02	yes
Chromium	ug/L	0.8	1.0	15.0	1.1	yes
Cobalt	ug/L	0.1	0.1	15.0	0.2	yes
Copper	ug/L	8	8	15	2	yes
Lead	ug/L	0.5	0.5	15.0	0.2	yes
Lithium	ug/L	2	2	15	2	yes
Molybdenum	ug/L	<1	<1	15	2	yes
Nickel	ug/L	1.9	2.1	15.0	1.1	yes
Selenium	ug/L	<0.2	<0.2	15.0	0.4	yes
Silver	ug/L	<0.1	<0.1	15.0	0.2	yes
Strontium	ug/L	199	216	15	2	yes
Thallium	ug/L	<0.05	<0.05	15.00	0.11	yes
Tin	ug/L	<1	<1	15	2	yes
Titanium	ug/L	<0.5	0.5	15.0	1.1	yes
Uranium	ug/L	<0.5	<0.5	15.0	1.1	yes
Vanadium	ug/L	4.8	5.1	15.0	0.2	yes
Zinc	ug/L	20	21	15	2	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Zirconium	ug/L	<1	<1	15	2	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					
Mercury	ug/L	<0.02	<0.02	30.000	0.050	yes
Material Used:	Metals Int. Duplicate - water tot					
Date Acquired:	July 20, 2007					
Acquired By:	Marie England					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	49.6	50.0	46.7	53.3	yes
Iron	mg/L	2.0	2.0	1.9	2.1	yes
Magnesium	mg/L	18.5	19.3	16.9	21.7	yes
Manganese	mg/L	0.495	0.490	0.457	0.523	yes
Potassium	mg/L	49.5	50.0	45.0	55.0	yes
Silicon	mg/L	4.71	4.80	4.44	5.16	yes
Sodium	mg/L	48.8	47.8	43.7	51.9	yes
Sulfur	mg/L	9.6	9.7	9.0	10.5	yes
Aluminum	ug/L	334	316	211	421	yes
Antimony	ug/L	11.7	11.6	8.6	14.6	yes
Arsenic	ug/L	11.6	11.3	8.6	14.0	yes
Barium	ug/L	62	61	46	76	yes
Beryllium	ug/L	5.7	5.7	4.7	6.8	yes
Bismuth	ug/L	29.2	30.1	22.6	37.6	yes
Boron	ug/L	128	119	86	152	yes
Cadmium	ug/L	0.55	0.63	0.47	0.78	yes
Chromium	ug/L	33.4	31.0	26.6	35.4	yes
Cobalt	ug/L	6.6	6.3	4.8	7.8	yes
Copper	ug/L	62	60	45	75	yes
Lead	ug/L	6.0	6.2	4.7	7.7	yes
Lithium	ug/L	61	62	44	80	yes
Molybdenum	ug/L	61	62	47	77	yes
Nickel	ug/L	31.8	30.1	22.6	37.6	yes
Selenium	ug/L	11.5	11.1	8.4	13.8	yes
Silver	ug/L	6.4	6.2	4.7	7.7	yes
Strontium	ug/L	63	62	53	70	yes
Thallium	ug/L	3.00	3.14	2.56	3.72	yes
Tin	ug/L	58	58	51	65	yes
Titanium	ug/L	34.5	31.1	23.6	38.6	yes
Uranium	ug/L	31.2	30.7	23.2	38.2	yes
Vanadium	ug/L	6.5	6.1	5.0	7.2	yes
Zinc	ug/L	62	59	49	69	yes
Zirconium	ug/L	65	60	51	70	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Edmonton Digestion Check					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					
Calcium	mg/L	244	242.0	217.1	266.9	yes
Iron	mg/L	9.8	9.7	9.0	10.4	yes
Magnesium	mg/L	96.0	98.0	92.6	103.4	yes
Manganese	mg/L	2.43	2.380	2.206	2.554	yes
Potassium	mg/L	253	255.0	233.4	276.6	yes
Silicon	mg/L	23.7	23.90	22.25	25.55	yes
Sodium	mg/L	246	245.4	230.7	260.1	yes
Sulfur	mg/L	49.4	49.2	46.2	52.2	yes
Material Used:	Metals High					
Date Acquired:	July 19, 2007					
Acquired By:	Bryan Morrison					
Calcium	mg/L	5.1	5.1	4.3	5.8	yes
Iron	mg/L	0.2	0.2	0.2	0.2	yes
Magnesium	mg/L	1.9	2.1	1.8	2.4	yes
Manganese	mg/L	0.051	0.051	0.048	0.054	yes
Potassium	mg/L	5.1	4.8	4.5	5.2	yes
Silicon	mg/L	0.48	0.49	0.44	0.54	yes
Sodium	mg/L	5.0	4.8	4.4	5.3	yes
Sulfur	mg/L	1	1.0	0.8	1.1	yes
Aluminum	ug/L	946	970	820	1120	yes
Antimony	ug/L	39.8	40.1	34.1	46.1	yes
Arsenic	ug/L	40.6	40.0	34.0	46.0	yes
Barium	ug/L	196	197	167	227	yes
Beryllium	ug/L	19.4	20.0	17.0	23.0	yes
Bismuth	ug/L	93.2	98.7	83.7	113.7	yes
Boron	ug/L	394	394	334	454	yes
Cadmium	ug/L	2.17	2.00	1.70	2.30	yes
Chromium	ug/L	94.1	98.5	83.5	113.5	yes
Cobalt	ug/L	21.2	20.2	17.2	23.2	yes
Copper	ug/L	202	194	176	212	yes
Lead	ug/L	20.2	20.2	17.2	23.2	yes
Lithium	ug/L	207	198	168	228	yes
Molybdenum	ug/L	198	201	171	231	yes
Nickel	ug/L	98.4	98.1	83.1	113.1	yes
Selenium	ug/L	40.4	39.9	33.9	45.9	yes
Silver	ug/L	20.4	20.7	17.7	23.7	yes
Strontium	ug/L	204	196	166	226	yes
Thallium	ug/L	9.95	10.30	8.80	11.80	yes
Tin	ug/L	184	200	170	230	yes
Titanium	ug/L	92.2	98.9	83.9	113.9	yes

Quality Control

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 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Uranium	ug/L	97.7	99.2	84.2	114.2	yes
Vanadium	ug/L	18.6	19.1	16.1	22.1	yes
Zinc	ug/L	206	198	168	228	yes
Zirconium	ug/L	209	200	170	230	yes

Material Used: Metals Low

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Aluminum	ug/L	55	52	44	59	yes
Antimony	ug/L	2.1	2.0	1.7	2.3	yes
Arsenic	ug/L	2.1	2.0	1.7	2.3	yes
Barium	ug/L	11	10	9	12	yes
Beryllium	ug/L	1	1.0	0.8	1.1	yes
Bismuth	ug/L	5.2	5.0	4.3	5.8	yes
Boron	ug/L	22	20	17	23	yes
Cadmium	ug/L	0.09	0.10	0.08	0.12	yes
Chromium	ug/L	5.5	5.0	4.3	5.8	yes
Cobalt	ug/L	1.1	1.0	0.9	1.2	yes
Copper	ug/L	11	10	9	12	yes
Lead	ug/L	1.0	1.0	0.9	1.2	yes
Lithium	ug/L	10	10	8	12	yes
Molybdenum	ug/L	10	10	9	12	yes
Nickel	ug/L	4.8	4.9	4.2	5.7	yes
Selenium	ug/L	2.2	2.0	1.7	2.3	yes
Silver	ug/L	1.1	1.0	0.9	1.2	yes
Strontium	ug/L	11	10	9	12	yes
Thallium	ug/L	0.50	0.51	0.42	0.60	yes
Tin	ug/L	9	10	8	11	yes
Titanium	ug/L	5.3	5.0	4.3	5.8	yes
Uranium	ug/L	5.2	5.1	4.4	5.9	yes
Vanadium	ug/L	1.1	1.0	0.8	1.2	yes
Zinc	ug/L	9	10	9	12	yes
Zirconium	ug/L	11	10	9	12	yes

Material Used: Metals Trace

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Physical and Aggregate Properties

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	4100	4106	3610	4602	yes

Material Used: W-SLD4-

Date Acquired: July 18, 2007

Acquired By: Heather Johnson

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Physical and Aggregate Properties - Continued

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Turbidity	NTU	5.4	6.4	5.3	7.5	yes
Material Used:	WM-Turb1-					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Turbidity	NTU	<0.1	<0.1	20.0	0.2	yes
Solids	mg/L	24	28	30	20	yes
Colour	Colour units	22	22	30	10	yes
Solids	mg/L	44	54	30	25	yes
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Turbidity	NTU	5.1	4.7	4.4	5.0	yes
Material Used:	CC - PCT					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Colour	Colour units	26	25	20	30	yes
Material Used:	CC-Colo1-					
Date Acquired:	July 20, 2007					
Acquired By:	Mark-Anthony Castelli					
Solids	mg/L	550	558	498	618	yes
Material Used:	Q-SLD-					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	30	38	12	64	yes
Material Used:	QL-SLD-					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	<5	0	-5	5	yes
Material Used:	Solids Blank Crucible					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	<2	0	-1	1	yes
Material Used:	Surrey Blank 2					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					

Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.2	0.2	yes
Magnesium	mg/L	<0.1	0.0	-0.1	0.1	yes
Sodium	mg/L	<0.4	0.0	-0.4	0.4	yes
Potassium	mg/L	<0.4	0.0	-0.4	0.4	yes
Iron	mg/L	<0.01	0.00	-0.01	0.01	yes
Manganese	mg/L	<0.005	0.001	-0.004	0.006	yes
Nitrate - N	mg/L	<0.01	0.00	-0.00	0.01	yes
Nitrite - N	mg/L	<0.005	0.000	-0.005	0.005	yes

Material Used: Edmonton Method Blank

Date Acquired: July 19, 2007

Acquired By: Kali Hicks

Chloride	mg/L	0.3	0.00	-0.05	0.05	yes
Nitrate - N	mg/L	<0.1	0.00	-0.03	0.03	yes
Nitrite - N	mg/L	<0.05	0.00	-0.10	0.10	yes
Sulfate (SO4)	mg/L	0.1	0.00	-0.10	0.10	yes

Material Used: Surrey Blank

Date Acquired: July 18, 2007

Acquired By: Marie England

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.00	100.38	98.98 - 101.02	yes
Material Used:	CC - pH					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Chloride	mg/L	1.7	1.50	112.00	90.01 - 109.99	yes
Nitrate - N	mg/L	1.0	1.00	102.00	90.01 - 109.99	yes
Nitrite - N	mg/L	1.6	1.50	108.67	90.01 - 109.99	yes
Sulfate (SO4)	mg/L	7.6	7.50	101.73	90.01 - 109.99	yes

Material Used: QM-An-

Date Acquired: July 18, 2007

Acquired By: Marie England

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
pH		8.11	8.62	8.02	9.22	yes
Electrical Conductivity	µS/cm at 25 C	450	445	398	492	yes
Chloride	mg/L	44	37.73	33.62	41.84	yes
Nitrate - N	mg/L	2.4	2.48	1.97	2.99	yes
Sulfate (SO4)	mg/L	63	65.05	55.33	74.77	yes
T-Alkalinity	mg/L	57	53	48	59	yes

Material Used: W-MIN1-

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC

Quality Control

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 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	70.5	69.5	10.0	0.6	yes
Magnesium	mg/L	3.8	3.8	10.0	0.7	yes
Sodium	mg/L	3.2	3.0	10.0	1.2	yes
Potassium	mg/L	7.3	7.2	10.0	1.2	yes
Iron	mg/L	0.04	0.03	9.99	0.05	yes
Manganese	mg/L	0.031	0.031	9.990	0.010	yes
Nitrate - N	mg/L	0.02	0.02	9.99	0.01	yes
Nitrite - N	mg/L	0.019	0.018	9.990	0.010	yes

Material Used: Edmonton Duplicate

Date Acquired: July 19, 2007

Acquired By: Kali Hicks

pH		7.36	7.37	0.10	0.10	yes
Chloride	mg/L	2	2	19.98	0.25	yes
Nitrate - N	mg/L	2	2	19.98	0.05	yes
Nitrite - N	mg/L	2.5	2.4	19.98	0.50	yes
Sulfate (SO4)	mg/L	540	520	19.98	0.50	yes
Hydroxide	mg/L	<5	<5	10	10	yes
Carbonate	mg/L	<6	<6	10	10	yes
Bicarbonate	mg/L	27	27	10	10	yes
P-Alkalinity	mg/L	<5	<5	10	5	yes
T-Alkalinity	mg/L	22	22	10	5	yes

Material Used: Surrey - Int. Duplicate 1

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH		7.42	7.30	7.15	7.45	yes
Electrical Conductivity	µS/cm at 25 C	54	90	87	93	yes
T-Alkalinity	mg/L	28	27	24	30	yes

Material Used: CC - PCT

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Electrical Conductivity	µS/cm at 25 C	1450	1411	1361	1461	yes
Material Used:	EC-CC2					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Calcium	mg/L	243	252.9	222.9	282.9	yes
Magnesium	mg/L	93.5	97.0	87.0	107.0	yes
Sodium	mg/L	243	245.0	220.0	270.0	yes
Potassium	mg/L	244	250.0	225.0	275.0	yes
Iron	mg/L	9.62	9.70	8.71	10.69	yes
Manganese	mg/L	2.38	2.420	2.204	2.636	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Metals High						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Calcium	mg/L	5.2	5.1	4.6	5.6	yes
Magnesium	mg/L	1.9	2.0	1.7	2.3	yes
Sodium	mg/L	5.0	5.0	4.5	5.5	yes
Potassium	mg/L	5.0	4.9	4.5	5.4	yes
Iron	mg/L	0.20	0.20	0.18	0.23	yes
Manganese	mg/L	0.050	0.051	0.045	0.057	yes
Material Used: Metals Low						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Electrical Conductivity	µS/cm at 25 C	<1	0	-2	2	yes
Material Used: RO water 1						
Date Acquired: July 18, 2007						
Acquired By: Mark-Anthony Castelli						
Nitrate - N	mg/L	10.1	10.09	9.60	10.58	yes
Nitrite - N	mg/L	10.1	10.020	9.510	10.530	yes
Material Used: Water High						
Date Acquired: July 19, 2007						
Acquired By: Kali Hicks						
Nitrate - N	mg/L	0.51	0.51	0.46	0.55	yes
Nitrite - N	mg/L	0.506	0.500	0.452	0.548	yes
Material Used: Water Low						
Date Acquired: July 19, 2007						
Acquired By: Kali Hicks						

Methodology and Notes

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	* Conductivity - Laboratory Method, 2510 B	18-Jul-07	BTG Surrey
Alk, pH, EC, Turb in water	APHA	* Electrometric Method, 4500-H+ B	18-Jul-07	BTG Surrey
Alk, pH, EC, Turb in water	APHA	* Titration Method, 2320 B	18-Jul-07	BTG Surrey
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	19-Jul-07	BTG Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	19-Jul-07	BTG Edmonton
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	19-Jul-07	BTG Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	20-Jul-07	BTG Surrey
Carbon Inorganic (Total) in water (TIC)	APHA	High-Temperature Combustion Method, 5310 B	20-Jul-07	BTG Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	19-Jul-07	BTG Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	19-Jul-07	BTG Edmonton
Colour (True) in water	APHA	* Visual Comparison Method, 2120 B	21-Jul-07	BTG Surrey
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	19-Jul-07	BTG Edmonton
Mercury Low Level (Total) in water	APHA	* Cold Vapour Atomic Absorption Spectrometric Method, 3112 B	21-Jul-07	BTG Surrey
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	19-Jul-07	BTG Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	23-Jul-07	BTG Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	19-Jul-07	BTG Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	20-Jul-07	BTG Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	19-Jul-07	BTG Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	23-Jul-07	BTG Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	19-Jul-07	BTG Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	20-Jul-07	BTG Edmonton
Orthophosphate-P in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	19-Jul-07	BTG Edmonton
Solids Dissolved (Total, Fixed and Volatile)2	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	18-Jul-07	BTG Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	18-Jul-07	BTG Surrey
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	19-Jul-07	BTG Edmonton

* Bodycote method(s) based on reference method

Methodology and Notes

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart	Date Received:	Jul 16, 2007
	151 Industrial Road	Location:	Silver Hart Property	Date Reported:	Jul 23, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1023840
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:			
Sampled By:	PI/JM				
Company:	ACG				

References

APHA	Standard Methods for the Examination of Water and Wastewater
ISO	International Organization for Standardization
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Samples 559841-1 to 7 exceeded recommended holding time for nitrate/nitrite analysis.
- Some trace total metal results were less than dissolved metal results for sample 559841-1 and 8. The results were confirmed.
- Some MS total metal results were less than dissolved metal results for sample 559841-1 to 7. The results were verified and are within the method uncertainty. July 23/07

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



Control Number

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis
See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To:	Copy of Report To:	Copy of Invoice:
Company:	Access Consulting Group		Company:	
Address:	#3 Calcite Business Centre-151 Industrial Road Whitehorse, YT Y1A 2V3	QA/QC Report ☒	Address:	Mail invoice to this address for approval ☐
Attention:	Paul Inglis	Report Result:	Attention:	Report Result:
Phone:	867-668-6364	Fax ☐	Phone:	Fax ☐
Fax:	867-667-6680	Mail ☐	Fax:	Mail ☐
Cell:		Courier ☐	Cell:	Courier ☐
Email:	paul@accessconsulting.ca	Email ☒	Email:	Email ☒

Information to be included on Report and Invoice Project ID: CMC-06-01 Project Name: Silver Hart Project Location: Silver Hart Property Legal Location: PO#: will email Proj. Acct. Code: Agreement ID:		RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses ☐ or ☐ Date required: Signature: Norwest Authorization:		Sample Custody (Please Print) Sampled by: PI/JM Date: 2007/07/12-13 Company ACG Signature Relinquished by: P. Inglis Company ACG Date: 2007/07/13 Waybill number: Received by: [Signature] 8:00 Company BT6 Date: July 16 3:30 Processed by: Norwest Labs Date	

[illegible]

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page ____ of ____
##

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Approval Status:	Approved
	# 3 Calcite Business Centre	Name:	Silver Hart	Invoice Frequency:	by Lot
	151 Industrial Road	Location:	Silver Hart Property	COD Status:	
	Whitehorse, YT, Canada	LSD:		Control Number:	
	Y1A 2V3	P.O.:		Date Received:	Jul 16, 2007
Attn:	Paul Inglis	Acct code:		Date Reported:	Jul 23, 2007
Sampled By:	PI/JM			Report Number:	1023840
Company:	ACG				

Contact	Company	Address
Scott Keesey	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca

Copies	Delivery	Format
1	Email - Single Report	PDF
1	Email - Single Report	Standard Crosstab

Contact	Company	Address
Paul Inglis	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: paul@accessconsulting.ca

	Copies	Delivery	Format
M	1	Post	
	1	Email - Single Report	PDF
	1	Email - Single Report	Standard Crosstab

_____ PAGES IN THIS TRANSMISSION

Notes To Clients:

- Samples 559841-1 to 7 exceeded recommended holding time for nitrate/nitrite analysis.
- Some trace total metal results were less than dissolved metal results for sample 559841-1 and 8. The results were confirmed.
- Some MS total metal results were less than dissolved metal results for sample 559841-1 to 7. The results were verified and are within the method uncertainty. July 23/07

Reports associated with this LotId/Format/Report DateId/Format/Report DateId/Format/Report Date

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If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.

Bill To: Access Mining Consultants Ltd. Project:
Report To: Access Mining Consultants Ltd. ID: CMC-06-01
3 Calcite Business Centre Name: Silver Hart
151 Industrial Road Location: Silver Hart Property
Whitehorse, YT, Canada LSD:
Y1A 2V3 P.O.:
Attn: Paul Inglis Acct code:
Sampled By: PI/JM
Company: ACG

Lot ID: **559841**
Control Number:
Date Received: Jul 16, 2007
Date Reported: Jul 23, 2007
Report Number: 1023840

Sample Disposal Date: August 22, 2007

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the bottom of this page.

☐ Extend Sample Storage Until _____ (MM/DD/YY)

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

☐ Return Sample, collect, to the address below via:

☐ Greyhound

☐ Loomis

☐ Purolator

☐ Other (specify) _____

Name _____

Company _____

Address _____

Phone _____

Fax _____

Signature _____

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.31	0.15	0.17	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.02	0.03	0.02	0.01
Organic Carbon	Total Nonpurgeable	mg/L	5.0	0.6	5.3	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	4.8	<0.5	5.0	0.5
Inorganic carbon	Total	mg/L	6.0	37.2	3.4	0.5
Metals Dissolved						
Silicon	Dissolved	mg/L	3.61	4.40	3.28	0.05
Sulfur	Dissolved	mg/L	1.1	39.9	1.2	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.037	0.005	0.091	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0051	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0151	0.0002	0.0002
Barium	Dissolved	mg/L	0.006	0.011	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	0.003	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	0.0102	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	0.0003	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0008	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	0.01	<0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	0.004	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	0.0042	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.079	0.420	0.050	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	0.0021	0.0013	0.0005
Uranium	Dissolved	mg/L	0.001	0.0228	0.0007	0.0005
Vanadium	Dissolved	mg/L	<0.0001	0.0012	0.0003	0.0001
Zinc	Dissolved	mg/L	0.001	6.87	0.007	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	6.8	74.8	4.9	0.2

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.6	14.9	0.4	0.1
Manganese	Total	mg/L	<0.005	0.157	<0.005	0.005
Potassium	Total	mg/L	<0.4	1.0	<0.4	0.4
Silicon	Total	mg/L	3.11	4.34	3.10	0.05
Sodium	Total	mg/L	2.1	2.6	1.7	0.4
Sulfur	Total	mg/L	1.0	39.5	1.1	0.3
Mercury	Total	ug/L	<0.02	<0.02	<0.02	0.02
Aluminum	Total	mg/L	0.039	0.011	0.125	0.005
Antimony	Total	mg/L	<0.0002	0.0050	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	0.0165	<0.0002	0.0002
Barium	Total	mg/L	0.006	0.012	0.007	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.004	0.006	<0.002	0.002
Cadmium	Total	mg/L	0.00001	0.0106	<0.00001	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	0.0005	<0.0001	0.0001
Copper	Total	mg/L	<0.001	0.003	<0.001	0.001
Lead	Total	mg/L	0.0003	0.0012	<0.0001	0.0001
Lithium	Total	mg/L	<0.001	0.012	<0.001	0.001
Molybdenum	Total	mg/L	<0.001	0.005	<0.001	0.001
Nickel	Total	mg/L	<0.0005	0.0066	<0.0005	0.0005
Selenium	Total	mg/L	0.0002	0.0008	<0.0002	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.074	0.423	0.048	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	<0.0005	0.0025	0.0027	0.0005
Uranium	Total	mg/L	0.0012	0.0245	0.0007	0.0005
Vanadium	Total	mg/L	0.0002	0.0001	0.0003	0.0001
Zinc	Total	mg/L	0.004	6.52	0.005	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Physical and Aggregate Properties						
Turbidity		NTU	0.1	<0.1	0.3	0.1
Solids	Total Suspended	mg/L	3	<2	<2	1
Colour	True	Colour units	13	<5	35	5
Solids	Total Dissolved	mg/L	44	328	32	5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-1	559841-2	559841-3	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-07	CMC-11	CMC-M1	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Routine Water						
pH		6.66	7.58	6.95		
Electrical Conductivity	µS/cm at 25 C	47	496	33	1	
Calcium	Dissolved mg/L	7.2	75.5	5.0	0.2	
Magnesium	Dissolved mg/L	0.6	14.8	0.4	0.1	
Sodium	Dissolved mg/L	2.1	2.5	1.8	0.4	
Potassium	Dissolved mg/L	<0.4	1	<0.4	0.4	
Iron	Dissolved mg/L	0.01	<0.01	0.05	0.01	
Manganese	Dissolved mg/L	<0.005	0.153	<0.005	0.005	
Chloride	Dissolved mg/L	0.1	<0.1	<0.1	0.1	
Nitrate - N	Dissolved mg/L	0.2	<0.1	<0.1	0.1	
Nitrite - N	Dissolved mg/L	<0.05	<0.05	<0.05	0.05	
Nitrate and Nitrite - N	mg/L	0.03	0.06	<0.02	0.02	
Sulfate (SO4)	Dissolved mg/L	2.9	3.0	3.0	0.1	
Hydroxide	mg/L	<5	<5	<5	5	
Carbonate	mg/L	<6	<6	<6	6	
Bicarbonate	mg/L	25	184	15	5	
T-Alkalinity	as CaCO3 mg/L	21	151	12	5	

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.16	0.15	0.15	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.02	0.02	0.02	0.01
Organic Carbon	Total Nonpurgeable	mg/L	4.9	3.7	3.1	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	5.2	4.0	3.5	0.5
Inorganic carbon	Total	mg/L	4.3	5.0	5.9	0.5
Metals Dissolved						
Silicon	Dissolved	mg/L	3.35	2.80	2.79	0.05
Sulfur	Dissolved	mg/L	1.4	1.1	1.1	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.066	0.031	0.028	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0002	0.0002
Barium	Dissolved	mg/L	0.006	0.005	0.006	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.067	0.065	0.080	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.001	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0006	0.0011	0.0011	0.0005
Vanadium	Dissolved	mg/L	0.0007	0.0003	0.0002	0.0001
Zinc	Dissolved	mg/L	0.005	0.002	<0.001	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	6.3	6.7	7.6	0.2

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.6	0.6	0.7	0.1
Manganese	Total	mg/L	<0.005	<0.005	0.006	0.005
Potassium	Total	mg/L	<0.4	<0.4	<0.4	0.4
Silicon	Total	mg/L	3.23	2.82	2.84	0.05
Sodium	Total	mg/L	1.7	1.8	1.9	0.4
Sulfur	Total	mg/L	1.4	1.0	1.1	0.3
Mercury	Total	ug/L	<0.02	0.18	1.19	0.02
Aluminum	Total	mg/L	0.099	0.040	0.043	0.005
Antimony	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Total	mg/L	<0.0002	<0.0002	0.0002	0.0002
Barium	Total	mg/L	0.008	0.007	0.006	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.002	<0.002	0.002	0.002
Cadmium	Total	mg/L	0.00001	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Total	mg/L	0.002	<0.001	<0.001	0.001
Lead	Total	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Total	mg/L	0.001	<0.001	<0.001	0.001
Molybdenum	Total	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Total	mg/L	0.0002	<0.0002	0.0002	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.069	0.063	0.075	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0017	<0.0005	0.0006	0.0005
Uranium	Total	mg/L	0.0008	0.0012	0.0013	0.0005
Vanadium	Total	mg/L	0.0003	0.0002	0.0002	0.0001
Zinc	Total	mg/L	0.006	0.004	0.002	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Physical and Aggregate Properties						
Turbidity		NTU	<0.1	<0.1	<0.1	0.1
Solids	Total Suspended	mg/L	<2	<2	<2	1
Colour	True	Colour units	29	17	17	5
Solids	Total Dissolved	mg/L	40	34	46	5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-4	559841-5	559841-6	
		Sample Date	Jul 12, 2007	Jul 12, 2007	Jul 13, 2007	
		Sample Location				
		Sample Description	CMC-M2	CMC-OC2	CMC-OC3	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Routine Water						
pH		7.03	7.04	7.02		
Electrical Conductivity	µS/cm at 25 C	42	44	49	1	
Calcium	Dissolved mg/L	4.0	6.8	7.6	0.2	
Magnesium	Dissolved mg/L	0.5	0.6	0.7	0.1	
Sodium	Dissolved mg/L	1.3	1.8	1.3	0.4	
Potassium	Dissolved mg/L	<0.4	<0.4	<0.4	0.4	
Iron	Dissolved mg/L	<0.01	0.02	0.03	0.01	
Manganese	Dissolved mg/L	<0.005	<0.005	0.006	0.005	
Chloride	Dissolved mg/L	0.2	0.2	0.1	0.1	
Nitrate - N	Dissolved mg/L	<0.1	<0.1	<0.1	0.1	
Nitrite - N	Dissolved mg/L	<0.05	<0.05	<0.05	0.05	
Nitrate and Nitrite - N	Dissolved mg/L	<0.02	<0.02	<0.02	0.02	
Sulfate (SO4)	Dissolved mg/L	3.9	2.8	3.0	0.1	
Hydroxide	mg/L	<5	<5	<5	5	
Carbonate	mg/L	<6	<6	<6	6	
Bicarbonate	mg/L	19	25	27	5	
T-Alkalinity	as CaCO3 mg/L	15	20	22	5	

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Reference Number 559841-7
 Sample Date Jul 13, 2007
 Sample Location
 Sample Description CMC-U1
 Matrix Water

Analyte	Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters					
Ammonium - N	mg/L	<0.05			0.05
Kjeldahl Nitrogen	Total mg/L	0.24			0.06
Phosphorus	Total mg/L	<0.05			0.05
Orthophosphate-P	Dissolved mg/L	0.03			0.01
Organic Carbon	Total Nonpurgeable mg/L	7.4			0.5
Organic Carbon	Dissolved Nonpurgeable mg/L	6.7			0.5
Inorganic carbon	Total mg/L	5.0			0.5
Physical and Aggregate Properties					
Turbidity	NTU	<0.1			0.1
Solids	Total Suspended mg/L	<2			1
Colour	True Colour units	36			5
Solids	Total Dissolved mg/L	86			5

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9	
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Dissolved						
Silicon	Dissolved	mg/L	4.23	4.18	3.87	0.05
Sulfur	Dissolved	mg/L	3.9	33.0	14.6	0.3
Mercury	Total Dissolved	ug/L	<0.02	<0.02	<0.02	.02
Aluminum	Dissolved	mg/L	0.053	0.165	0.013	0.005
Antimony	Dissolved	mg/L	<0.0002	0.0029	0.0012	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0031	0.0006	0.0002
Barium	Dissolved	mg/L	0.007	0.017	0.015	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	0.004	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	0.00373	0.00041	0.00001
Chromium	Dissolved	mg/L	<0.0005	0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	0.0004	0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	0.001	0.003	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0013	0.0002	0.0001
Lithium	Dissolved	mg/L	0.001	0.008	0.003	0.001
Molybdenum	Dissolved	mg/L	0.011	0.004	0.002	0.001
Nickel	Dissolved	mg/L	<0.0005	0.0042	<0.0005	0.0005
Selenium	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.096	0.340	0.181	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0008	0.0032	0.0010	0.0005
Uranium	Dissolved	mg/L	<0.0005	0.0117	0.0020	0.0005
Vanadium	Dissolved	mg/L	0.0004	0.0027	0.0006	0.0001
Zinc	Dissolved	mg/L	<0.001	2.36	0.266	0.001
Subsample	Field Filtered		Yes	Yes	Yes	
Metals Total						
Calcium	Total	mg/L	18.4	61.0	28.4	0.2
Iron	Total	mg/L	<0.1	<0.1	<0.1	0.1
Magnesium	Total	mg/L	0.7	12.1	4.9	0.1
Manganese	Total	mg/L	<0.005	0.012	<0.005	0.005
Potassium	Total	mg/L	<0.4	0.9	0.5	0.4
Silicon	Total	mg/L	4.20	3.84	3.66	0.05
Sodium	Total	mg/L	1.7	2.8	2.0	0.4
Sulfur	Total	mg/L	3.8	33.1	14.4	0.3
Mercury	Total	ug/L	0.06	0.06	0.02	0.02

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9	
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007	
		Sample Location				
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Total - Continued						
Aluminum	Total	mg/L	0.079	0.330	0.020	0.005
Antimony	Total	mg/L	<0.0002	0.0029	0.0011	0.0002
Arsenic	Total	mg/L	<0.0002	0.0031	0.0007	0.0002
Barium	Total	mg/L	0.007	0.022	0.016	0.001
Beryllium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Total	mg/L	0.003	0.006	0.003	0.002
Cadmium	Total	mg/L	<0.00001	0.00399	0.00042	0.00001
Chromium	Total	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Total	mg/L	<0.0001	0.0002	<0.0001	0.0001
Copper	Total	mg/L	<0.001	0.006	<0.001	0.001
Lead	Total	mg/L	<0.0001	0.0027	0.0002	0.0001
Lithium	Total	mg/L	0.002	0.008	0.004	0.001
Molybdenum	Total	mg/L	0.012	0.004	0.002	0.001
Nickel	Total	mg/L	<0.0005	0.0053	<0.0005	0.0005
Selenium	Total	mg/L	0.0003	0.0007	0.0003	0.0002
Silver	Total	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Total	mg/L	0.094	0.331	0.177	0.001
Thallium	Total	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Total	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Total	mg/L	0.0018	0.0047	0.0013	0.0005
Uranium	Total	mg/L	<0.0005	0.0136	0.0023	0.0005
Vanadium	Total	mg/L	0.0002	0.0035	0.0005	0.0001
Zinc	Total	mg/L	0.003	2.44	0.247	0.001
Zirconium	Total	mg/L	<0.001	<0.001	<0.001	0.001
Routine Water						
pH			7.31			
Electrical Conductivity		µS/cm at 25 C	106	420	200	1
Calcium	Dissolved	mg/L	19.4	70.5	30.1	0.2
Magnesium	Dissolved	mg/L	0.7	11.8	5.0	0.1
Sodium	Dissolved	mg/L	1.7	3.2	2.2	0.4
Potassium	Dissolved	mg/L	<0.4	0.9	0.5	0.4
Iron	Dissolved	mg/L	0.03	0.04	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	0.014	<0.005	0.005
Chloride	Dissolved	mg/L	<0.1			0.1
Nitrate - N	Dissolved	mg/L	<0.1			0.1
Nitrite - N	Dissolved	mg/L	<0.05			0.05
Nitrate and Nitrite - N		mg/L	<0.02			0.02

Analytical Report

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

		Reference Number	559841-7	559841-8	559841-9
		Sample Date	Jul 13, 2007	Jul 12, 2007	Jul 12, 2007
		Sample Location			
		Sample Description	CMC-U1	ADIT FLOW 1	ADIT FLOW 2
		Matrix	Water	Water	Water
Analyte	Units	Results	Results	Results	Detection Limit
Routine Water - Continued					
Sulfate (SO4)	Dissolved	mg/L	12.0		0.1
Hydroxide		mg/L	<5		5
Carbonate		mg/L	<6		6
Bicarbonate		mg/L	50		5
T-Alkalinity	as CaCO3	mg/L	41		5

Analytical Report

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Reference Number 559841-10
 Sample Date Jul 12, 2007
 Sample Location
 Sample Description Waste Rock Edge
 Matrix Water

Analyte	Units	Results	Results	Results	Detection Limit
Metals Total					
Calcium	Total	mg/L	62.0		0.2
Iron	Total	mg/L	<0.1		0.1
Magnesium	Total	mg/L	12.3		0.1
Manganese	Total	mg/L	0.011		0.005
Potassium	Total	mg/L	0.9		0.4
Silicon	Total	mg/L	3.75		0.05
Sodium	Total	mg/L	2.4		0.4
Sulfur	Total	mg/L	34.0		0.3
Mercury	Total	ug/L	<0.02		0.02
Aluminum	Total	mg/L	0.025		0.005
Antimony	Total	mg/L	0.0030		0.0002
Arsenic	Total	mg/L	0.0034		0.0002
Barium	Total	mg/L	0.015		0.001
Beryllium	Total	mg/L	<0.0001		0.0001
Bismuth	Total	mg/L	<0.0005		0.0005
Boron	Total	mg/L	0.004		0.002
Cadmium	Total	mg/L	0.00402		0.00001
Chromium	Total	mg/L	<0.0005		0.0005
Cobalt	Total	mg/L	<0.0001		0.0001
Copper	Total	mg/L	<0.001		0.001
Lead	Total	mg/L	0.0008		0.0001
Lithium	Total	mg/L	0.008		0.001
Molybdenum	Total	mg/L	0.004		0.001
Nickel	Total	mg/L	<0.0005		0.0005
Selenium	Total	mg/L	0.0005		0.0002
Silver	Total	mg/L	<0.0001		0.0001
Strontium	Total	mg/L	0.342		0.001
Thallium	Total	mg/L	<0.00005		0.00005
Tin	Total	mg/L	<0.001		0.001
Titanium	Total	mg/L	0.0024		0.0005
Uranium	Total	mg/L	0.0142		0.0005
Vanadium	Total	mg/L	0.0002		0.0001
Zinc	Total	mg/L	2.48		0.001
Zirconium	Total	mg/L	<0.001		0.001

Analytical Report

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart	Date Received:	Jul 16, 2007
	151 Industrial Road	Location:	Silver Hart Property	Date Reported:	Jul 23, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1023840
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:			
Sampled By:	PI/JM				
Company:	ACG				

Approved by:

Walter Brandl
Operations Manager - Surrey

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

null

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	mS/cm	0.00130	0.001	-0.008	0.010	yes
Material Used:	Edmonton Method Blank					
Date Acquired:	July 19, 2007					
Acquired By:	Linda Lam					

Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	<0.05	0.00	-0.08	0.08	yes
Nitrogen	mg/L	<0.06	0.02	-0.04	0.07	yes
Phosphorus	mg/L	<0.05	0.03	-0.04	0.09	yes
Orthophosphate-P	mg/L	<0.01	0.01	-0.04	0.06	yes
Organic Carbon	mg/L	<0.5	0.0	-0.6	0.7	yes
Inorganic carbon	mg/L	<0.5	-0.0	-0.7	0.6	yes
Material Used:	Edmonton Method Blank					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mg/L	4.17	4.14	9.99	0.10	yes
Nitrogen	mg/L	17.6	16.6	9.99	0.12	yes
Phosphorus	mg/L	0.11	0.13	9.99	0.20	yes
Orthophosphate-P	mg/L	0.04	0.04	9.99	0.05	yes
Organic Carbon	mg/L	4.8	4.7	10.0	1.0	yes
Inorganic carbon	mg/L	6.0	6.0	10.0	1.0	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mg/L	3.17	3.06	2.88	3.24	yes
Nitrogen	mg/L	123	120.90	108.54	133.26	yes
Phosphorus	mg/L	8.19	8.03	7.58	8.48	yes
Organic Carbon	mg/L	122	117.0	101.4	132.6	yes
Inorganic carbon	mg/L	110	101.5	89.5	113.5	yes
Material Used:	Water High					
Date Acquired:	July 19, 2007					
Acquired By:	Stef Pavlyshyn					
Ammonium - N	mg/L	0.82	0.81	0.75	0.87	yes
Nitrogen	mg/L	15.3	14.70	13.20	16.20	yes
Phosphorus	mg/L	2.02	1.97	1.79	2.15	yes
Orthophosphate-P	mg/L	0.41	0.41	0.35	0.47	yes
Organic Carbon	mg/L	15.8	15.1	12.8	17.4	yes
Inorganic carbon	mg/L	17.1	15.9	14.1	17.7	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Inorganic Nonmetallic Parameters - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Water Low						
Date Acquired: July 19, 2007						
Acquired By: Stef Pavlyshyn						
Nitrogen	mg/L	1.12	1.02	0.87	1.17	yes
Orthophosphate-P	mg/L	0.07	0.08	0.07	0.09	yes
Organic Carbon	mg/L	3.5	3.1	2.3	3.8	yes
Inorganic carbon	mg/L	3.4	3.6	2.8	4.3	yes
Material Used: Water Trace						
Date Acquired: July 19, 2007						
Acquired By: Stef Pavlyshyn						

Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	<0.05	0.01	-0.04	0.06	yes
Sulfur	mg/L	<0.3	0.0	-0.3	0.3	yes
Aluminum	ug/L	<5	0	-5	5	yes
Antimony	ug/L	<0.2	-0.4	-4.6	3.8	yes
Arsenic	ug/L	<0.2	0.0	-0.2	0.2	yes
Barium	ug/L	<1	0	-9	9	yes
Beryllium	ug/L	<0.1	0.0	-0.0	0.1	yes
Bismuth	ug/L	<0.5	0.0	-0.5	0.6	yes
Boron	ug/L	<2	0	-1	1	yes
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	yes
Chromium	ug/L	<0.5	-0.0	-0.3	0.3	yes
Cobalt	ug/L	<0.1	0.0	-0.1	0.1	yes
Copper	ug/L	<1	0	-1	1	yes
Lead	ug/L	<0.1	0.0	-0.1	0.1	yes
Lithium	ug/L	<1	0	-1	1	yes
Molybdenum	ug/L	<1	0	-1	1	yes
Nickel	ug/L	<0.5	0.0	-0.5	0.5	yes
Selenium	ug/L	<0.2	-0.0	-0.2	0.2	yes
Silver	ug/L	<0.1	-0.0	-0.1	0.1	yes
Strontium	ug/L	<1	0	-1	1	yes
Thallium	ug/L	<0.05	0.00	-0.05	0.05	yes
Tin	ug/L	<1	0	-1	1	yes
Titanium	ug/L	<0.5	0.0	-0.5	0.5	yes
Uranium	ug/L	<0.5	-0.0	-0.5	0.5	yes
Vanadium	ug/L	<0.1	0.0	-0.1	0.1	yes
Zinc	ug/L	1	1	-0	2	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Edmonton Method Blank					
Date Acquired:	July 20, 2007					
Acquired By:	Alexsandra Robert					
Mercury	ug/L	<0.02	0.00	-19.98	19.98	yes
Material Used:	Metals Blank - water - total					
Date Acquired:	July 20, 2007					
Acquired By:	Marie England					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mg/L	4.31	4.30	9.99	0.01	yes
Sulfur	mg/L	33.0	32.9	10.0	0.1	yes
Aluminum	ug/L	5	<5	10	11	yes
Antimony	ug/L	<0.2	<0.2	10.0	0.4	yes
Arsenic	ug/L	0.7	0.5	10.0	0.4	yes
Barium	ug/L	15	16	10	2	yes
Beryllium	ug/L	<0.1	<0.1	10.0	0.2	yes
Bismuth	ug/L	<0.5	<0.5	10.0	1.1	yes
Boron	ug/L	50	48	10	4	yes
Cadmium	ug/L	<0.01	0.01	9.99	0.02	yes
Chromium	ug/L	1.5	1.3	10.0	1.1	yes
Cobalt	ug/L	0.3	0.4	10.0	0.2	yes
Copper	ug/L	2	1	10	2	yes
Lead	ug/L	<0.1	<0.1	10.0	0.2	yes
Lithium	ug/L	<1	<1	10	2	yes
Molybdenum	ug/L	2	1	10	2	yes
Nickel	ug/L	<0.5	<0.5	10.0	1.1	yes
Selenium	ug/L	1	0.8	10.0	0.4	yes
Silver	ug/L	<0.1	<0.1	10.0	0.2	yes
Strontium	ug/L	68	67	10	2	yes
Thallium	ug/L	<0.05	<0.05	9.99	0.11	yes
Tin	ug/L	<1	<1	10	2	yes
Titanium	ug/L	0.9	<0.5	10.0	1.1	yes
Uranium	ug/L	<0.5	<0.5	10.0	1.1	yes
Vanadium	ug/L	4.8	4.9	10.0	0.2	yes
Zinc	ug/L	20	20	10	2	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mg/L	23.9	24.30	21.80	26.80	yes
Sulfur	mg/L	49.2	49.1	44.1	54.1	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Metals High						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Silicon	mg/L	0.49	0.50	0.45	0.55	yes
Sulfur	mg/L	1	1.0	0.7	1.2	yes
Aluminum	ug/L	949	971	851	1091	yes
Antimony	ug/L	42.0	41.4	38.6	44.2	yes
Arsenic	ug/L	41.4	40.4	37.1	43.7	yes
Barium	ug/L	201	199	184	214	yes
Beryllium	ug/L	21.4	19.9	17.2	22.6	yes
Bismuth	ug/L	105	100.8	90.6	111.0	yes
Boron	ug/L	425	396	348	444	yes
Cadmium	ug/L	2.06	2.05	1.75	2.35	yes
Chromium	ug/L	104	99.6	92.1	107.1	yes
Cobalt	ug/L	20.9	20.4	17.4	23.4	yes
Copper	ug/L	202	195	165	225	yes
Lead	ug/L	20.7	20.2	17.2	23.2	yes
Lithium	ug/L	220	199	169	229	yes
Molybdenum	ug/L	202	201	171	231	yes
Nickel	ug/L	98.8	98.7	83.7	113.7	yes
Selenium	ug/L	41.4	40.0	34.0	46.0	yes
Silver	ug/L	21.5	20.8	17.8	23.8	yes
Strontium	ug/L	213	196	166	226	yes
Thallium	ug/L	9.85	10.27	8.77	11.77	yes
Tin	ug/L	189	191	176	206	yes
Titanium	ug/L	102	100.1	85.1	115.1	yes
Uranium	ug/L	93.8	98.4	83.4	113.4	yes
Vanadium	ug/L	19.1	19.3	16.3	22.3	yes
Zinc	ug/L	208	200	182	218	yes
Material Used: Metals Low						
Date Acquired: July 19, 2007						
Acquired By: Aleksandra Robert						
Aluminum	ug/L	54	51	45	58	yes
Antimony	ug/L	2.3	2.1	1.9	2.3	yes
Arsenic	ug/L	2.2	2.0	1.7	2.3	yes
Barium	ug/L	11	10	1	19	yes
Beryllium	ug/L	1.0	1.0	0.8	1.1	yes
Bismuth	ug/L	5.7	5.1	4.5	5.7	yes
Boron	ug/L	22	20	17	23	yes
Cadmium	ug/L	0.11	0.10	0.08	0.12	yes
Chromium	ug/L	5.3	5.0	4.4	5.6	yes
Cobalt	ug/L	1.1	1.0	0.9	1.2	yes
Copper	ug/L	10	10	9	12	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Dissolved - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Lead	ug/L	1.0	1.0	0.9	1.2	yes
Lithium	ug/L	10	10	9	12	yes
Molybdenum	ug/L	10	10	9	12	yes
Nickel	ug/L	5.2	5.0	4.2	5.7	yes
Selenium	ug/L	2.0	2.0	1.7	2.3	yes
Silver	ug/L	1.1	1.0	0.9	1.2	yes
Strontium	ug/L	11	10	9	12	yes
Thallium	ug/L	0.52	0.51	0.47	0.56	yes
Tin	ug/L	10	10	8	11	yes
Titanium	ug/L	5.2	5.0	4.3	5.8	yes
Uranium	ug/L	5.4	5.1	4.4	5.9	yes
Vanadium	ug/L	1	1.0	0.9	1.2	yes
Zinc	ug/L	11	11	9	12	yes

Material Used: Metals Trace
 Date Acquired: July 20, 2007
 Acquired By: Alexandra Robert

Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.0	0.0	yes
Iron	mg/L	<0.1	0.0	-0.0	0.0	yes
Magnesium	mg/L	<0.1	-0.0	-0.0	0.0	yes
Manganese	mg/L	<0.005	0.000	-0.001	0.001	yes
Potassium	mg/L	<0.4	0.0	-0.1	0.1	yes
Silicon	mg/L	<0.05	0.01	-0.03	0.04	yes
Sodium	mg/L	<0.4	-0.0	-0.1	0.1	yes
Sulfur	mg/L	<0.3	0.0	-0.1	0.2	yes
Aluminum	ug/L	<5	1	-4	6	yes
Antimony	ug/L	<0.2	0.0	-0.2	0.2	yes
Arsenic	ug/L	<0.2	-0.0	-0.2	0.2	yes
Barium	ug/L	<1	0	-1	1	yes
Beryllium	ug/L	<0.1	0.0	-0.1	0.1	yes
Bismuth	ug/L	<0.5	0.0	-0.5	0.5	yes
Boron	ug/L	<2	1	-1	3	yes
Cadmium	ug/L	<0.01	0.00	-0.01	0.01	yes
Chromium	ug/L	<0.5	-0.2	-0.7	0.3	yes
Cobalt	ug/L	<0.1	-0.0	-0.1	0.1	yes
Copper	ug/L	<1	0	-1	1	yes
Lead	ug/L	<0.1	0.0	-0.1	0.1	yes
Lithium	ug/L	<1	0	-1	1	yes
Molybdenum	ug/L	<1	0	-1	1	yes
Nickel	ug/L	<0.5	0.0	-0.5	0.5	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Selenium	ug/L	<0.2	0.0	-0.2	0.2	yes
Silver	ug/L	<0.1	0.0	-0.1	0.1	yes
Strontium	ug/L	<1	0	-1	1	yes
Thallium	ug/L	<0.05	-0.00	-0.05	0.05	yes
Tin	ug/L	<1	-0	-1	1	yes
Titanium	ug/L	<0.5	0.0	-0.5	0.5	yes
Uranium	ug/L	<0.5	-0.0	-0.5	0.5	yes
Vanadium	ug/L	0.1	0.0	-0.1	0.1	yes
Zinc	ug/L	<1	1	-0	2	yes
Zirconium	ug/L	<1	0	-1	1	yes

Material Used: Edmonton Method Blank

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Mercury	ug/L	<0.02	0.000	-20.010	20.010	yes

Material Used: Metals Blank - water - total

Date Acquired: July 20, 2007

Acquired By: Marie England

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	ug/L	<5	<5	15	11	yes
Antimony	ug/L	<0.2	<0.2	15.0	0.4	yes
Arsenic	ug/L	1.4	1.4	15.0	0.4	yes
Barium	ug/L	12	12	15	2	yes
Beryllium	ug/L	<0.1	<0.1	15.0	0.2	yes
Bismuth	ug/L	<0.5	<0.5	15.0	1.1	yes
Boron	ug/L	42	44	15	4	yes
Cadmium	ug/L	<0.01	<0.01	15.00	0.02	yes
Chromium	ug/L	0.8	1.0	15.0	1.1	yes
Cobalt	ug/L	0.1	0.1	15.0	0.2	yes
Copper	ug/L	8	8	15	2	yes
Lead	ug/L	0.5	0.5	15.0	0.2	yes
Lithium	ug/L	2	2	15	2	yes
Molybdenum	ug/L	<1	<1	15	2	yes
Nickel	ug/L	1.9	2.1	15.0	1.1	yes
Selenium	ug/L	<0.2	<0.2	15.0	0.4	yes
Silver	ug/L	<0.1	<0.1	15.0	0.2	yes
Strontium	ug/L	199	216	15	2	yes
Thallium	ug/L	<0.05	<0.05	15.00	0.11	yes
Tin	ug/L	<1	<1	15	2	yes
Titanium	ug/L	<0.5	0.5	15.0	1.1	yes
Uranium	ug/L	<0.5	<0.5	15.0	1.1	yes
Vanadium	ug/L	4.8	5.1	15.0	0.2	yes
Zinc	ug/L	20	21	15	2	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Zirconium	ug/L	<1	<1	15	2	yes
Material Used:	Edmonton Duplicate					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					
Mercury	ug/L	<0.02	<0.02	30.000	0.050	yes
Material Used:	Metals Int. Duplicate - water tot					
Date Acquired:	July 20, 2007					
Acquired By:	Marie England					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	49.6	50.0	46.7	53.3	yes
Iron	mg/L	2.0	2.0	1.9	2.1	yes
Magnesium	mg/L	18.5	19.3	16.9	21.7	yes
Manganese	mg/L	0.495	0.490	0.457	0.523	yes
Potassium	mg/L	49.5	50.0	45.0	55.0	yes
Silicon	mg/L	4.71	4.80	4.44	5.16	yes
Sodium	mg/L	48.8	47.8	43.7	51.9	yes
Sulfur	mg/L	9.6	9.7	9.0	10.5	yes
Aluminum	ug/L	334	316	211	421	yes
Antimony	ug/L	11.7	11.6	8.6	14.6	yes
Arsenic	ug/L	11.6	11.3	8.6	14.0	yes
Barium	ug/L	62	61	46	76	yes
Beryllium	ug/L	5.7	5.7	4.7	6.8	yes
Bismuth	ug/L	29.2	30.1	22.6	37.6	yes
Boron	ug/L	128	119	86	152	yes
Cadmium	ug/L	0.55	0.63	0.47	0.78	yes
Chromium	ug/L	33.4	31.0	26.6	35.4	yes
Cobalt	ug/L	6.6	6.3	4.8	7.8	yes
Copper	ug/L	62	60	45	75	yes
Lead	ug/L	6.0	6.2	4.7	7.7	yes
Lithium	ug/L	61	62	44	80	yes
Molybdenum	ug/L	61	62	47	77	yes
Nickel	ug/L	31.8	30.1	22.6	37.6	yes
Selenium	ug/L	11.5	11.1	8.4	13.8	yes
Silver	ug/L	6.4	6.2	4.7	7.7	yes
Strontium	ug/L	63	62	53	70	yes
Thallium	ug/L	3.00	3.14	2.56	3.72	yes
Tin	ug/L	58	58	51	65	yes
Titanium	ug/L	34.5	31.1	23.6	38.6	yes
Uranium	ug/L	31.2	30.7	23.2	38.2	yes
Vanadium	ug/L	6.5	6.1	5.0	7.2	yes
Zinc	ug/L	62	59	49	69	yes
Zirconium	ug/L	65	60	51	70	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used:	Edmonton Digestion Check					
Date Acquired:	July 19, 2007					
Acquired By:	Alexsandra Robert					
Calcium	mg/L	244	242.0	217.1	266.9	yes
Iron	mg/L	9.8	9.7	9.0	10.4	yes
Magnesium	mg/L	96.0	98.0	92.6	103.4	yes
Manganese	mg/L	2.43	2.380	2.206	2.554	yes
Potassium	mg/L	253	255.0	233.4	276.6	yes
Silicon	mg/L	23.7	23.90	22.25	25.55	yes
Sodium	mg/L	246	245.4	230.7	260.1	yes
Sulfur	mg/L	49.4	49.2	46.2	52.2	yes
Material Used:	Metals High					
Date Acquired:	July 19, 2007					
Acquired By:	Bryan Morrison					
Calcium	mg/L	5.1	5.1	4.3	5.8	yes
Iron	mg/L	0.2	0.2	0.2	0.2	yes
Magnesium	mg/L	1.9	2.1	1.8	2.4	yes
Manganese	mg/L	0.051	0.051	0.048	0.054	yes
Potassium	mg/L	5.1	4.8	4.5	5.2	yes
Silicon	mg/L	0.48	0.49	0.44	0.54	yes
Sodium	mg/L	5.0	4.8	4.4	5.3	yes
Sulfur	mg/L	1	1.0	0.8	1.1	yes
Aluminum	ug/L	946	970	820	1120	yes
Antimony	ug/L	39.8	40.1	34.1	46.1	yes
Arsenic	ug/L	40.6	40.0	34.0	46.0	yes
Barium	ug/L	196	197	167	227	yes
Beryllium	ug/L	19.4	20.0	17.0	23.0	yes
Bismuth	ug/L	93.2	98.7	83.7	113.7	yes
Boron	ug/L	394	394	334	454	yes
Cadmium	ug/L	2.17	2.00	1.70	2.30	yes
Chromium	ug/L	94.1	98.5	83.5	113.5	yes
Cobalt	ug/L	21.2	20.2	17.2	23.2	yes
Copper	ug/L	202	194	176	212	yes
Lead	ug/L	20.2	20.2	17.2	23.2	yes
Lithium	ug/L	207	198	168	228	yes
Molybdenum	ug/L	198	201	171	231	yes
Nickel	ug/L	98.4	98.1	83.1	113.1	yes
Selenium	ug/L	40.4	39.9	33.9	45.9	yes
Silver	ug/L	20.4	20.7	17.7	23.7	yes
Strontium	ug/L	204	196	166	226	yes
Thallium	ug/L	9.95	10.30	8.80	11.80	yes
Tin	ug/L	184	200	170	230	yes
Titanium	ug/L	92.2	98.9	83.9	113.9	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Metals Total - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Uranium	ug/L	97.7	99.2	84.2	114.2	yes
Vanadium	ug/L	18.6	19.1	16.1	22.1	yes
Zinc	ug/L	206	198	168	228	yes
Zirconium	ug/L	209	200	170	230	yes

Material Used: Metals Low

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Aluminum	ug/L	55	52	44	59	yes
Antimony	ug/L	2.1	2.0	1.7	2.3	yes
Arsenic	ug/L	2.1	2.0	1.7	2.3	yes
Barium	ug/L	11	10	9	12	yes
Beryllium	ug/L	1	1.0	0.8	1.1	yes
Bismuth	ug/L	5.2	5.0	4.3	5.8	yes
Boron	ug/L	22	20	17	23	yes
Cadmium	ug/L	0.09	0.10	0.08	0.12	yes
Chromium	ug/L	5.5	5.0	4.3	5.8	yes
Cobalt	ug/L	1.1	1.0	0.9	1.2	yes
Copper	ug/L	11	10	9	12	yes
Lead	ug/L	1.0	1.0	0.9	1.2	yes
Lithium	ug/L	10	10	8	12	yes
Molybdenum	ug/L	10	10	9	12	yes
Nickel	ug/L	4.8	4.9	4.2	5.7	yes
Selenium	ug/L	2.2	2.0	1.7	2.3	yes
Silver	ug/L	1.1	1.0	0.9	1.2	yes
Strontium	ug/L	11	10	9	12	yes
Thallium	ug/L	0.50	0.51	0.42	0.60	yes
Tin	ug/L	9	10	8	11	yes
Titanium	ug/L	5.3	5.0	4.3	5.8	yes
Uranium	ug/L	5.2	5.1	4.4	5.9	yes
Vanadium	ug/L	1.1	1.0	0.8	1.2	yes
Zinc	ug/L	9	10	9	12	yes
Zirconium	ug/L	11	10	9	12	yes

Material Used: Metals Trace

Date Acquired: July 19, 2007

Acquired By: Aleksandra Robert

Physical and Aggregate Properties

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Solids	mg/L	4100	4106	3610	4602	yes

Material Used: W-SLD4-

Date Acquired: July 18, 2007

Acquired By: Heather Johnson

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Physical and Aggregate Properties - Continued

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Turbidity	NTU	5.4	6.4	5.3	7.5	yes
Material Used:	WM-Turb1-					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Turbidity	NTU	<0.1	<0.1	20.0	0.2	yes
Solids	mg/L	24	28	30	20	yes
Colour	Colour units	22	22	30	10	yes
Solids	mg/L	44	54	30	25	yes
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Turbidity	NTU	5.1	4.7	4.4	5.0	yes
Material Used:	CC - PCT					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Colour	Colour units	26	25	20	30	yes
Material Used:	CC-Colo1-					
Date Acquired:	July 20, 2007					
Acquired By:	Mark-Anthony Castelli					
Solids	mg/L	550	558	498	618	yes
Material Used:	Q-SLD-					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	30	38	12	64	yes
Material Used:	QL-SLD-					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	<5	0	-5	5	yes
Material Used:	Solids Blank Crucible					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					
Solids	mg/L	<2	0	-1	1	yes
Material Used:	Surrey Blank 2					
Date Acquired:	July 18, 2007					
Acquired By:	Heather Johnson					

Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mg/L	<0.2	0.0	-0.2	0.2	yes
Magnesium	mg/L	<0.1	0.0	-0.1	0.1	yes
Sodium	mg/L	<0.4	0.0	-0.4	0.4	yes
Potassium	mg/L	<0.4	0.0	-0.4	0.4	yes
Iron	mg/L	<0.01	0.00	-0.01	0.01	yes
Manganese	mg/L	<0.005	0.001	-0.004	0.006	yes
Nitrate - N	mg/L	<0.01	0.00	-0.00	0.01	yes
Nitrite - N	mg/L	<0.005	0.000	-0.005	0.005	yes

Material Used: Edmonton Method Blank

Date Acquired: July 19, 2007

Acquired By: Kali Hicks

Chloride	mg/L	0.3	0.00	-0.05	0.05	yes
Nitrate - N	mg/L	<0.1	0.00	-0.03	0.03	yes
Nitrite - N	mg/L	<0.05	0.00	-0.10	0.10	yes
Sulfate (SO4)	mg/L	0.1	0.00	-0.10	0.10	yes

Material Used: Surrey Blank

Date Acquired: July 18, 2007

Acquired By: Marie England

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.00	100.38	98.98 - 101.02	yes
Material Used:	CC - pH					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Chloride	mg/L	1.7	1.50	112.00	90.01 - 109.99	yes
Nitrate - N	mg/L	1.0	1.00	102.00	90.01 - 109.99	yes
Nitrite - N	mg/L	1.6	1.50	108.67	90.01 - 109.99	yes
Sulfate (SO4)	mg/L	7.6	7.50	101.73	90.01 - 109.99	yes

Material Used: QM-An-

Date Acquired: July 18, 2007

Acquired By: Marie England

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
pH		8.11	8.62	8.02	9.22	yes
Electrical Conductivity	µS/cm at 25 C	450	445	398	492	yes
Chloride	mg/L	44	37.73	33.62	41.84	yes
Nitrate - N	mg/L	2.4	2.48	1.97	2.99	yes
Sulfate (SO4)	mg/L	63	65.05	55.33	74.77	yes
T-Alkalinity	mg/L	57	53	48	59	yes

Material Used: W-MIN1-

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mg/L	70.5	69.5	10.0	0.6	yes
Magnesium	mg/L	3.8	3.8	10.0	0.7	yes
Sodium	mg/L	3.2	3.0	10.0	1.2	yes
Potassium	mg/L	7.3	7.2	10.0	1.2	yes
Iron	mg/L	0.04	0.03	9.99	0.05	yes
Manganese	mg/L	0.031	0.031	9.990	0.010	yes
Nitrate - N	mg/L	0.02	0.02	9.99	0.01	yes
Nitrite - N	mg/L	0.019	0.018	9.990	0.010	yes

Material Used: Edmonton Duplicate

Date Acquired: July 19, 2007

Acquired By: Kali Hicks

pH		7.36	7.37	0.10	0.10	yes
Chloride	mg/L	2	2	19.98	0.25	yes
Nitrate - N	mg/L	2	2	19.98	0.05	yes
Nitrite - N	mg/L	2.5	2.4	19.98	0.50	yes
Sulfate (SO4)	mg/L	540	520	19.98	0.50	yes
Hydroxide	mg/L	<5	<5	10	10	yes
Carbonate	mg/L	<6	<6	10	10	yes
Bicarbonate	mg/L	27	27	10	10	yes
P-Alkalinity	mg/L	<5	<5	10	5	yes
T-Alkalinity	mg/L	22	22	10	5	yes

Material Used: Surrey - Int. Duplicate 1

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH		7.42	7.30	7.15	7.45	yes
Electrical Conductivity	µS/cm at 25 C	54	90	87	93	yes
T-Alkalinity	mg/L	28	27	24	30	yes

Material Used: CC - PCT

Date Acquired: July 18, 2007

Acquired By: Mark-Anthony Castelli

Electrical Conductivity	µS/cm at 25 C	1450	1411	1361	1461	yes
Material Used:	EC-CC2					
Date Acquired:	July 18, 2007					
Acquired By:	Mark-Anthony Castelli					
Calcium	mg/L	243	252.9	222.9	282.9	yes
Magnesium	mg/L	93.5	97.0	87.0	107.0	yes
Sodium	mg/L	243	245.0	220.0	270.0	yes
Potassium	mg/L	244	250.0	225.0	275.0	yes
Iron	mg/L	9.62	9.70	8.71	10.69	yes
Manganese	mg/L	2.38	2.420	2.204	2.636	yes

Quality Control

Bill To: Access Mining Consultants Ltd. Project:
 Report To: Access Mining Consultants Ltd. ID: CMC-06-01
 # 3 Calcite Business Centre Name: Silver Hart
 151 Industrial Road Location: Silver Hart Property
 Whitehorse, YT, Canada LSD:
 Y1A 2V3 P.O.:
 Attn: Paul Inglis Acct code:
 Sampled By: PI/JM
 Company: ACG

Lot ID: **559841**
 Control Number:
 Date Received: Jul 16, 2007
 Date Reported: Jul 23, 2007
 Report Number: 1023840

Routine Water - Continued

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Material Used: Metals High						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Calcium	mg/L	5.2	5.1	4.6	5.6	yes
Magnesium	mg/L	1.9	2.0	1.7	2.3	yes
Sodium	mg/L	5.0	5.0	4.5	5.5	yes
Potassium	mg/L	5.0	4.9	4.5	5.4	yes
Iron	mg/L	0.20	0.20	0.18	0.23	yes
Manganese	mg/L	0.050	0.051	0.045	0.057	yes
Material Used: Metals Low						
Date Acquired: July 19, 2007						
Acquired By: Alvin Kwan						
Electrical Conductivity	µS/cm at 25 C	<1	0	-2	2	yes
Material Used: RO water 1						
Date Acquired: July 18, 2007						
Acquired By: Mark-Anthony Castelli						
Nitrate - N	mg/L	10.1	10.09	9.60	10.58	yes
Nitrite - N	mg/L	10.1	10.020	9.510	10.530	yes
Material Used: Water High						
Date Acquired: July 19, 2007						
Acquired By: Kali Hicks						
Nitrate - N	mg/L	0.51	0.51	0.46	0.55	yes
Nitrite - N	mg/L	0.506	0.500	0.452	0.548	yes
Material Used: Water Low						
Date Acquired: July 19, 2007						
Acquired By: Kali Hicks						

Methodology and Notes

Bill To: Access Mining Consultants Ltd.	Project:	Lot ID: 559841
Report To: Access Mining Consultants Ltd.	ID: CMC-06-01	Control Number:
# 3 Calcite Business Centre	Name: Silver Hart	Date Received: Jul 16, 2007
151 Industrial Road	Location: Silver Hart Property	Date Reported: Jul 23, 2007
Whitehorse, YT, Canada	LSD:	Report Number: 1023840
Y1A 2V3	P.O.:	
Attn: Paul Inglis	Acct code:	
Sampled By: PI/JM		
Company: ACG		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water	APHA	* Conductivity - Laboratory Method, 2510 B	18-Jul-07	BTG Surrey
Alk, pH, EC, Turb in water	APHA	* Electrometric Method, 4500-H+ B	18-Jul-07	BTG Surrey
Alk, pH, EC, Turb in water	APHA	* Titration Method, 2320 B	18-Jul-07	BTG Surrey
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	19-Jul-07	BTG Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	19-Jul-07	BTG Edmonton
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	19-Jul-07	BTG Surrey
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	20-Jul-07	BTG Surrey
Carbon Inorganic (Total) in water (TIC)	APHA	High-Temperature Combustion Method, 5310 B	20-Jul-07	BTG Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	19-Jul-07	BTG Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	19-Jul-07	BTG Edmonton
Colour (True) in water	APHA	* Visual Comparison Method, 2120 B	21-Jul-07	BTG Surrey
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	19-Jul-07	BTG Edmonton
Mercury Low Level (Total) in water	APHA	* Cold Vapour Atomic Absorption Spectrometric Method, 3112 B	21-Jul-07	BTG Surrey
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	19-Jul-07	BTG Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	23-Jul-07	BTG Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	19-Jul-07	BTG Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	20-Jul-07	BTG Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	19-Jul-07	BTG Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	23-Jul-07	BTG Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	19-Jul-07	BTG Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	20-Jul-07	BTG Edmonton
Orthophosphate-P in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	19-Jul-07	BTG Edmonton
Solids Dissolved (Total, Fixed and Volatile)2	APHA	* Total Dissolved Solids Dried at 180 C, 2540 C	18-Jul-07	BTG Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	18-Jul-07	BTG Surrey
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	19-Jul-07	BTG Edmonton

* Bodycote method(s) based on reference method

Methodology and Notes

Bill To:	Access Mining Consultants Ltd.	Project:		Lot ID:	559841
Report To:	Access Mining Consultants Ltd.	ID:	CMC-06-01	Control Number:	
	# 3 Calcite Business Centre	Name:	Silver Hart	Date Received:	Jul 16, 2007
	151 Industrial Road	Location:	Silver Hart Property	Date Reported:	Jul 23, 2007
	Whitehorse, YT, Canada	LSD:		Report Number:	1023840
	Y1A 2V3	P.O.:			
Attn:	Paul Inglis	Acct code:			
Sampled By:	PI/JM				
Company:	ACG				

References

APHA	Standard Methods for the Examination of Water and Wastewater
ISO	International Organization for Standardization
US EPA	US Environmental Protection Agency Test Methods

Comments:

- Samples 559841-1 to 7 exceeded recommended holding time for nitrate/nitrite analysis.
- Some trace total metal results were less than dissolved metal results for sample 559841-1 and 8. The results were confirmed.
- Some MS total metal results were less than dissolved metal results for sample 559841-1 to 7. The results were verified and are within the method uncertainty. July 23/07

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



**NORWEST
LABS**

LOT# 496018

Control Number

Environmental Sample Information Sheet

NOTE Proper completion of this form is required in order to proceed with analysis

See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To:	Copy of Report To:		Copy of invoice:
Company: Access Consulting Group		QA/QC Report ☒	Company: Access Consulting Group		Mail invoice to this
Address: #3 Calcite Business Centre-151 Industrial Road			Address: #3 Calcite Business Centre-151 Industrial Road		address for approval ☐
Whitehorse, YT Y1A 2V3			Whitehorse, YT Y1A 2V3		
Attention: Corey Fernets		Report Result:	Attention: Paul Inglis		Report Result:
Phone: 867-668-6364		Fax ☐	Phone: 867-668-6364		Fax ☐
Fax: 867-667-6680		Mail ☐	Fax: 867-667-6680		Mail ☐
Cell:		Courier ☐	Cell:		Courier ☐
Email: corey@accessconsulting.ca		Email ☒	Email: paul@accessconsulting.ca		Email ☒

Information to be included on Report and Invoice	Project ID: CMC-06-01	RUSH Please contact the laboratory to confirm rush dates and times before submitting samples. Upon filling out this section, client accepts that surcharges will be attached to this analysis Required on: all analyses ☐ or ☐ Date required: _____ Signature: _____ Norwest Authorization: _____	Sample Custody (Please Print)	
	Project Name: CMC Metals		Sampled by: Corey Fernets	Date: Sept 23, 2006
	Project Location: Silver Hart		Company: ACG	Signature: _____
	Legal Location:		Relinquished by: Corey Fernets	
	PO#:		Company: ACG	Date: Sept 25, 2006
	Proj. Acct. Code:		Waybill number:	
Agreement ID:	Received by: _____	Company: _____	Date: _____	
	Processed by:	Norwest Labs		
		Date		

Special Instructions/Comments

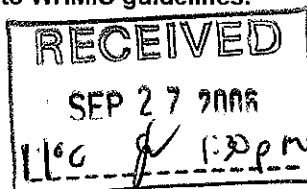
1. All total metals are preserved. All dissolved metals are field filtered. Unpreserved portion can be taken from routine container.
2. For routine water analysis, please include: pH, EC, Nitrate, Sulfate, hardness, hydroxide, alkalinity, TSS.
3. Preservatives used: nitric, NaOH, sulphuric, HCl - according to protocol and sampling requirements for each individual parameter

	Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method	Number of Containers	Enter tests above (check off relevant samples below)										
								Routine	Total Metals	Diss. Metals	Nutrients (NUTR)	Total Cyanide	TOC	TIC/DOC	metals by a 33 element ICP scan			
✓ 1	CMC-07		-	Sept 21, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
2	CMC-M2		-	Sept 21, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
3	CMC-11		-	Sept 21, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
4	CMC-U1		-	Sept 21, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
5	CMC-05		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
6	CMC-06		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
7	CMC-04		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
8	CMC-03A		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
9	CMC-03		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
10	CMC-01		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
11	CMC-10		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
12	CMC-02		-	Sept 22, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
13	CMC-M1		-	Sept 23, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				
14	CMC-OC3		-	Sept 23, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓				

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page 1 of 3
##





**NORWEST
LABS**

Environmental Sample Information Sheet

Control Number

NOTE Proper completion of this form is required in order to proceed with analysis

See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To: ☐	Copy of Report To:	Copy of invoice: ☐
Company: Access Consulting Group		QA/QC Report ☒	Company: Access Consulting Group	Mail invoice to this
Address: #3 Calcite Business Centre-151 Industrial Road			Address: #3 Calcite Business Centre-151 Industrial Road	address for approval ☐
Whitehorse, YT Y1A 2V3			Whitehorse, YT Y1A 2V3	
Attention: Corey Fernets		Report Result:	Attention: Paul Inglis	Report Result:
Phone: 867-668-6364		Fax ☐	Phone: 867-668-6364	Fax ☐
Fax: 867-667-6680		Mail ☐	Fax: 867-667-6680	Mail ☐
Cell:		Courier ☐	Cell:	Courier ☐
Email: corey@accessconsulting.ca		Email ☒	Email: paul@accessconsulting.ca	Email ☒

Information to be included on Report and Invoice	RUSH	Sample Custody (Please Print)
	Please contact the laboratory to confirm rush dates and times before submitting samples.	
	Upon filling out this section, client accepts that surcharges will be attached to this analysis	Sampled by: Corey Fernets Date: Sept 23, 2006
	Required on: all analyses or as indicated	Company ACG Signature
	☐ or ☐	Relinquished by: Corey Fernets
	Date required:	Company ACG Date: Sept 25, 2006
Signature:	Waybill number:	
Norwest Authorization:	Received by:	
	Company	Date
	Processed by:	
	Norwest Labs	Date

Special Instructions/Comments						Number of Containers	Routine	Total Metals	Diss. Metals	Nutrients (NUTR)	Total Cyanide	TOC	TIC/DOC							
1. All total metals are preserved. All dissolved metals are field filtered. Unpreserved portion can be taken from routine container. 2. For routine water analysis, please include: pH, EC, Nitrate, Sulfate, hardness, hydroxide, alkalinity, TSS. 3. Preservatives used: nitric, NaOH, sulphuric, HCl - according to protocol and sampling requirements for each individual parameter																				
Sample Identification	Location	Depth	Date/Time Sampled	Matrix	Sampling Method															
✓ 1 CMC-OC2		-	Sept 23, 2006	H2O	grab	7	✓	✓	✓	✓	✓	✓	✓							
✓ 2 CMC-07		-	Sept 21, 2006	Sediment	grab	1	✓													
✓ 3 CMC-M2		-	Sept 21, 2006	Sediment	grab	1	✓													
✓ 4 CMC-11		-	Sept 21, 2006	Sediment	grab	1	✓													
✓ 5 CMC-U1		-	Sept 21, 2006	Sediment	grab	1	✓													
✓ 6 CMC-05		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 7 CMC-06		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 8 CMC-04		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 9 CMC-03A		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 10 CMC-03		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 11 CMC-01		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 12 CMC-10		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 13 CMC-02		-	Sept 22, 2006	Sediment	grab	1	✓													
✓ 14 CMC-M1		-	Sept 23, 2006	Sediment	grab	1	✓													

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page 2 of 3
##

**NORWEST
LABS**

Control Number

Environmental Sample Information Sheet**NOTE Proper completion of this form is required in order to proceed with analysis**

See reverse for contacting your nearest Norwest location and proper sampling protocol

Billing Address		Report To: ☐	Copy of Report To:		Copy of invoice: ☐
Company: Access Consulting Group		QA/QC Report ☒	Company: Access Consulting Group		Mail invoice to this
Address: #3 Calcite Business Centre-151 Industrial Road			Address: #3 Calcite Business Centre-151 Industrial Road		address for approval ☐
Whitehorse, YT Y1A 2V3			Whitehorse, YT Y1A 2V3		
Attention: Corey Fernets		Report Result:	Attention: Paul Inglis		Report Result:
Phone: 867-668-6364		Fax ☐	Phone: 867-668-6364		Fax ☐
Fax: 867-667-6680		Mail ☐	Fax: 867-667-6680		Mail ☐
Cell:		Courier ☐	Cell:		Courier ☐
Email: corey@accessconsulting.ca		Email ☒	Email: paul@accessconsulting.ca		Email ☒

Information to be included on Report and Invoice	RUSH	Sample Custody (Please Print)	
	Please contact the laboratory to confirm rush dates and times before submitting samples.		
	Upon filling out this section, client accepts that surcharges will be attached to this analysis		Sampled by: Corey Fernets Date: Sept 23, 2006
	Required on: all analyses or as indicated		Company: ACG Signature: _____
	☐ or ☐		Relinquished by: Corey Fernets
	Date required: _____		Company: ACG Date: Sept 25, 2006
Project ID: CMC-06-01	Signature: _____		Waybill number: _____
Project Name: CMC Metals	Norwest Authorization: _____		Received by: _____
Project Location: Silver Hart			Company: _____ Date: _____
Legal Location: _____			Processed by: _____
PO#: _____			Norwest Labs Date: _____
Proj. Acct. Code: _____			
Agreement ID: _____			

Special Instructions/Comments

1. All total metals are preserved. All dissolved metals are field filtered. Unpreserved portion can be taken from routine container.
2. For routine water analysis, please include: pH, EC, Nitrate, Sulfate, hardness, hydroxide, alkalinity, TSS.
3. Preservatives used: nitric, NaOH, sulphuric, HCl - according to protocol and sampling requirements for each individual parameter

Sample Identification						Number of Containers	Enter tests above (check off relevant samples below)									
	Location	Depth	Date/Time Sampled	Matrix	Sampling Method		Routine	Total Metals	Diss. Metals	Nutrients (NUTR)	Total Cyanide	TOC	TIC/DOC			
1	CMC-OC3	-	Sept 23, 2006	Sediment	grab	1	☒	☒								
2	CMC-OC2	-	Sept 23, 2006	Sediment	grab	1	☒	☒								
3		-														
4		-														
5		-														
6		-														
7		-														
8		-														
9		-														
10		-														
11		-														
12		-														
13		-														
14		-														

NOTE: All hazardous samples must be labeled according to WHMIS guidelines.

Accredited by the Standards Council of Canada for specific tests

Page 3 of 3
##



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Contact	Company	Address												
Corey Fernets Web Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: corey@accessconsulting.ca												
<table><tr><th><u>Copies</u></th><th><u>Delivery Strategy</u></th><th><u>Format</u></th></tr><tr><td></td><td>1 Post</td><td></td></tr><tr><td>A</td><td>1 Email - Single Report</td><td>PDF</td></tr><tr><td>A</td><td>1 Email - Single Report</td><td>Standard Crosstab</td></tr></table>		<u>Copies</u>	<u>Delivery Strategy</u>	<u>Format</u>		1 Post		A	1 Email - Single Report	PDF	A	1 Email - Single Report	Standard Crosstab	
<u>Copies</u>	<u>Delivery Strategy</u>	<u>Format</u>												
	1 Post													
A	1 Email - Single Report	PDF												
A	1 Email - Single Report	Standard Crosstab												
Paul Inglis Web Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: paul@accessconsulting.ca												
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A	1 Email - Single Report	PDF												
A	1 Email - Single Report	Standard Crosstab												
Scott Keesey Web x Email Notification	Access Mining Consultants Ltd.	# 3 Calcite Business Centre, 151 Industrial Road Whitehorse, YT Y1A 2V3 Phone: (867) 668-6463 Fax: (867) 667-6680 Email: scott@accessconsulting.ca												
<table><tr><th><u>Copies</u></th><th><u>Delivery Strategy</u></th><th><u>Format</u></th></tr></table>		<u>Copies</u>	<u>Delivery Strategy</u>	<u>Format</u>										
<u>Copies</u>	<u>Delivery Strategy</u>	<u>Format</u>												

NOTE: **P** indicates a preliminary report is required

NOTE: **A** indicates report is delivered using automated delivery

_____ # OF PAGES IN THIS TRANSMISSION

Report Transmission Notes

Agreement Notes

Lot Notes

Sample Notes:

Notes to Clients

Lot Notes:

Analysis was completed on samples 1-15 that exceeded the recommended holding time for alkalinity analysis.

Analysis was completed on samples 1-15 that exceeded the recommended holding time for pH analysis. Some MS total metal results were less than dissolved metal results for sample 496018-1 to 15. The results were verified and are within the method uncertainty. Oct 3/06

Some trace total metal results were less than dissolved metal results for samples 1 and 2. The results were confirmed. BS October 3 2006

Some trace total metal results were less than dissolved metal results for samples 3-15. The results were verified and are within the method uncertainty. BS October 3 2006

Sample Notes:



Report Transmission Cover Page

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Batch Notes:

Method Notes:

Method Result Notes:

Reports associated with this Lot

Id/Format/Reported Date

911014 Env2QC 3 Smp & DL

Id/Format/Reported Date

Id/Format/Reported Date

Comment:

See Methodology and Notes page of Analytical Report for all comments pertaining to this report.

If this report transmission is not satisfactory, please send report requirements to the address at the top of this page.



Sample Custody

Norwest Labs
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Surrey, BC. V3S 8P8
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Sampled By: Corey Fernets
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Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Sample Disposal Date: Nov 02, 2006

All samples will be stored until this date unless other instructions are received. Please indicate other requirements below and return this form to the address or fax number on the upper right of this page.

_____ **Extend Sample Storage Until** _____ **(MM/DD/YY)**

The following charges apply to extended sample storage:

Storage for 1 to 5 samples per month	\$ 10.00
Storage for 6 to 20 samples per month	\$ 15.00
Storage for 21 to 50 samples per month	\$ 30.00
Storage for 51 to 200 samples per month	\$ 60.00
Storage for more than 200 samples per month	\$ 110.00

_____ **Return Sample, collect, to the address below via:**

_____ Greyhound
_____ Loomis
_____ Purolator
_____ Other (Specify) _____

Name: _____
Company: _____
Address: _____

Phone: _____
Fax: _____
Signature: _____

If no other arrangements have been made, samples will be disposed of on Nov 02, 2006.



Analytical Report

Norwest Labs
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Phone: (604) 514-3322
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Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 1 of 45

		NWL Number	496018-1	496018-2	496018-3	
		Sample Date	Sep 21, 2006	Sep 21, 2006	Sep 21, 2006	
		Sample Description	CMC - 07	CMC - M2	CMC - 11	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.48	0.20	0.14	0.06
Phosphorus	Total	mg/L	0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.03	0.03	0.04	0.01
Organic Carbon	Total Nonpurgeable	mg/L	2.2	2.8	0.7	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	2.5	2.8	0.6	0.5
Inorganic carbon	Total	mg/L	4.8	4.5	36.9	0.5
Cyanide	Total	mg/L	<0.001	<0.001	<0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.66	3.68	4.67	0.05
Sulfur	Dissolved	mg/L	0.8	2.0	42.5	0.3
Aluminum	Dissolved	mg/L	0.008	0.029	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	0.0049	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	0.0170	0.0002
Barium	Dissolved	mg/L	0.005	0.007	0.011	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	0.003	0.002
Cadmium	Dissolved	mg/L	<0.00001	0.00001	0.00680	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	0.002	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	0.001	0.0001
Lithium	Dissolved	mg/L	0.001	0.001	0.012	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	0.005	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0029	0.0005
Selenium	Dissolved	mg/L	0.0003	0.0003	0.0005	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.062	0.074	0.384	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	0.0006	0.0031	0.0005
Uranium	Dissolved	mg/L	0.0010	0.0005	0.0251	0.0005
Vanadium	Dissolved	mg/L	0.0002	0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.002	0.004	5.38	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 2 of 45

		NWL Number	496018-1	496018-2	496018-3	
		Sample Date	Sep 21, 2006	Sep 21, 2006	Sep 21, 2006	
		Sample Description	CMC - 07	CMC - M2	CMC - 11	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	6.6	7.6	79.8	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	0.5	0.7	16	0.1
Manganese	Total	mg/L	<0.01	<0.01	0.069	0.005
Potassium	Total	mg/L	<0.8	<0.8	1.1	0.4
Silicon	Total	mg/L	2.34	3.41	4.12	0.05
Sodium	Total	mg/L	1	2	2.1	0.4
Sulfur	Total	mg/L	0.6	2	38.2	0.3
Aluminum	Total	mg/L	0.025	0.064	0.01	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	0.0043	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	0.016	0.0002
Barium	Total	mg/L	0.005	0.008	0.01	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	0.00640	0.00001
Chromium	Total	mg/L	<0.001	0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	0.001	0.0001
Lithium	Total	mg/L	<0.002	<0.002	0.01	0.001
Molybdenum	Total	mg/L	<0.002	<0.002	0.006	0.001
Nickel	Total	mg/L	<0.001	<0.001	0.0040	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.063	0.073	0.410	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	<0.001	0.001	0.0024	0.0005
Uranium	Total	mg/L	0.001	<0.001	0.0255	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	<0.002	0.005	4.84	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
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Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
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NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
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Page: 3 of 45

		NWL Number	496018-1	496018-2	496018-3	
		Sample Date	Sep 21, 2006	Sep 21, 2006	Sep 21, 2006	
		Sample Description	CMC - 07	CMC - M2	CMC - 11	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	@ 25 °C	pH	6.41	6.76	7.84	
Electrical Conductivity	Water	uS/cm	48	52	515	1
Calcium	Dissolved	mg/L	7.0	7.8	82.7	0.2
Magnesium	Dissolved	mg/L	0.7	0.7	17.3	0.1
Sodium	Dissolved	mg/L	1.3	1.5	2.1	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	1.1	0.4
Iron	Dissolved	mg/L	<0.01	0.01	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	0.066	0.005
Nitrate - N	Dissolved	mg/L	<0.03	<0.03	<0.03	0.03
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Sulfate (SO4)	Dissolved	mg/L	2.3	5.6	128	0.1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	24	23	186	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	20	19	153	5
Hardness	Dissolved as CaCO3	mg/L	20	23	278	



Analytical Report

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NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
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Page: 4 of 45

		NWL Number	496018-4	496018-5	496018-6	
		Sample Date	Sep 21, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - U1	CMC - 05	CMC - 06	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.28	0.16	0.12	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.04	0.03	0.03	0.01
Organic Carbon	Total Nonpurgeable	mg/L	3.4	1.9	2.4	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	3.3	1.8	1.7	0.5
Inorganic carbon	Total	mg/L	12.8	10.5	10.1	0.5
Cyanide	Total	mg/L	<0.001	0.001	<0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.54	2.92	2.88	0.05
Sulfur	Dissolved	mg/L	4.6	1.8	1.8	0.3
Aluminum	Dissolved	mg/L	0.015	<0.005	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	0.0003	0.0002	0.0002
Barium	Dissolved	mg/L	0.007	0.008	0.007	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	0.00002	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.002	0.001
Molybdenum	Dissolved	mg/L	0.011	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	0.0004	0.0004	0.0004	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.116	0.104	0.116	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.0005	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	<0.0005	0.0009	0.0010	0.0005
Vanadium	Dissolved	mg/L	<0.0001	0.0002	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.004	0.003	0.005	0.001



Analytical Report

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ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
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NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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Page: 5 of 45

		NWL Number	496018-4	496018-5	496018-6	
		Sample Date	Sep 21, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - U1	CMC - 05	CMC - 06	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	24.6	18	15	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	0.9	1	1	0.1
Manganese	Total	mg/L	0.02	0.023	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	3.79	2.36	2.68	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	4.3	2.1	2	0.3
Aluminum	Total	mg/L	0.048	0.02	0.02	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.008	0.01	0.008	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	0.01	<0.002	<0.002	0.001
Nickel	Total	mg/L	0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.12	0.10	0.11	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	0.002	<0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	<0.001	0.001	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	0.004	0.004	0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

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		NWL Number	496018-4	496018-5	496018-6	
		Sample Date	Sep 21, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - U1	CMC - 05	CMC - 06	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	@ 25 °C	pH	7.05	7.05	7.22	
Electrical Conductivity	Water	uS/cm	134	102	93	1
Calcium	Dissolved	mg/L	24.8	17.9	16.3	0.2
Magnesium	Dissolved	mg/L	0.9	1.3	1.0	0.1
Sodium	Dissolved	mg/L	1.2	1.4	1.5	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	0.4	0.4
Iron	Dissolved	mg/L	0.01	<0.01	0.02	0.01
Manganese	Dissolved	mg/L	0.012	<0.005	<0.005	0.005
Nitrate - N	Dissolved	mg/L	<0.03	<0.03	<0.03	0.03
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	0.04	0.02
Sulfate (SO4)	Dissolved	mg/L	13.9	6.8	5.3	0.1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	67	54	52	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	55	44	42	5
Hardness	Dissolved as CaCO3	mg/L	66	50.0	45.0	



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Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

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		NWL Number	496018-7	496018-8	496018-9	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 04	CMC - 03A	CMC - 03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.16	0.12	0.11	0.06
Phosphorus	Total	mg/L	0.11	0.06	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.03	0.03	0.03	0.01
Organic Carbon	Total Nonpurgeable	mg/L	2.0	2.5	2.5	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	1.7	2.5	2.0	0.5
Inorganic carbon	Total	mg/L	10.5	11.3	11.7	0.5
Cyanide	Total	mg/L	<0.001	<0.001	<0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.91	4.47	4.32	0.05
Sulfur	Dissolved	mg/L	2.3	3.7	2.9	0.3
Aluminum	Dissolved	mg/L	0.005	0.008	0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0003	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.009	0.006	0.005	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	0.00001	0.00003	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	0.0029	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.003	0.002	0.001
Molybdenum	Dissolved	mg/L	<0.001	0.003	0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	0.0010	0.0005
Selenium	Dissolved	mg/L	0.0003	0.0002	0.0004	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.097	0.122	0.087	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0009	0.0006	0.0006	0.0005
Vanadium	Dissolved	mg/L	0.0001	0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.003	0.004	0.004	0.001



Analytical Report

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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

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		NWL Number	496018-7	496018-8	496018-9	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 04	CMC - 03A	CMC - 03	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	17	20.2	20.3	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	1	2	1	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	2.71	4.19	3.23	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	2.2	3.5	2.7	0.3
Aluminum	Total	mg/L	0.022	0.02	0.02	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.009	0.006	0.005	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	0.002	<0.002	0.001
Molybdenum	Total	mg/L	<0.002	0.004	0.003	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.099	0.12	0.083	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	0.002	0.003	0.004	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



Analytical Report

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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
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		NWL Number	496018-7	496018-8	496018-9	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 04	CMC - 03A	CMC - 03	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	@ 25 °C	pH	7.26	7.29	7.32	
Electrical Conductivity	Water	uS/cm	102	118	114	1
Calcium	Dissolved	mg/L	18.3	20.6	21.3	0.2
Magnesium	Dissolved	mg/L	1.3	1.5	1	0.1
Sodium	Dissolved	mg/L	1.4	1.5	1.2	0.4
Potassium	Dissolved	mg/L	0.5	0.4	<0.4	0.4
Iron	Dissolved	mg/L	0.01	<0.01	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate - N	Dissolved	mg/L	<0.03	<0.03	<0.03	0.03
Nitrate and Nitrite - N		mg/L	<0.02	<0.02	<0.02	0.02
Sulfate (SO4)	Dissolved	mg/L	7.1	12.2	8.8	0.1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	56	62	62	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	46	50	51	5
Hardness	Dissolved as CaCO3	mg/L	51.1	57.6	57	



Analytical Report

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Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

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		NWL Number	496018-10	496018-11	496018-12	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 01	CMC - 10	CMC - 02	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.12	0.13	0.19	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.03	0.03	0.03	0.01
Organic Carbon	Total Nonpurgeable	mg/L	2.2	1.9	1.9	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	2.1	1.5	1.5	0.5
Inorganic carbon	Total	mg/L	10.6	9.6	10.2	0.5
Cyanide	Total	mg/L	<0.001	<0.001	<0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	2.94	3.39	3.71	0.05
Sulfur	Dissolved	mg/L	2.2	5.7	1.7	0.3
Aluminum	Dissolved	mg/L	0.006	0.006	<0.005	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	0.0003	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.009	0.005	0.004	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.002	0.002	0.002	0.001
Molybdenum	Dissolved	mg/L	<0.001	0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	0.0009	<0.0005	0.0005
Selenium	Dissolved	mg/L	0.0004	<0.0002	0.0002	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.097	0.096	0.050	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0009	0.0008	<0.0005	0.0005
Vanadium	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.003	0.004	0.002	0.001



Analytical Report

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Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
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NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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		NWL Number	496018-10	496018-11	496018-12	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 01	CMC - 10	CMC - 02	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	17	21.1	16	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	1	1	0.9	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	1.0	0.4
Silicon	Total	mg/L	2.38	2.94	3.08	0.05
Sodium	Total	mg/L	1	1	1	0.4
Sulfur	Total	mg/L	2	5.5	2	0.3
Aluminum	Total	mg/L	0.025	0.020	0.01	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.01	0.005	0.005	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	<0.002	0.002	0.001
Molybdenum	Total	mg/L	<0.002	0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.090	0.094	0.052	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	0.002	0.003	0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



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		NWL Number	496018-10	496018-11	496018-12	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 01	CMC - 10	CMC - 02	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	@ 25 °C	pH	7.35	7.51	7.34	
Electrical Conductivity	Water	uS/cm	101	120	96	1
Calcium	Dissolved	mg/L	18.1	21.6	16.9	0.2
Magnesium	Dissolved	mg/L	1.1	1.0	0.9	0.1
Sodium	Dissolved	mg/L	1.4	1.1	1.2	0.4
Potassium	Dissolved	mg/L	0.4	0.5	0.9	0.4
Iron	Dissolved	mg/L	0.01	<0.01	<0.01	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate - N	Dissolved	mg/L	<0.03	<0.03	<0.03	0.03
Nitrate and Nitrite - N		mg/L	0.03	<0.02	<0.02	0.02
Sulfate (SO4)	Dissolved	mg/L	6.9	17.7	5.0	0.1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	56	52	55	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	46	43	45	5
Hardness	Dissolved as CaCO3	mg/L	49.8	58.1	46	



Analytical Report

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Report to: Access Mining Consultants Ltd.
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151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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		NWL Number	496018-13	496018-14	496018-15	
		Sample Date	Sep 23, 2006	Sep 23, 2006	Sep 23, 2006	
		Sample Description	CMC - M1	CMC - OC3	CMC - OC2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Inorganic Nonmetallic Parameters						
Ammonium - N		mg/L	<0.05	<0.05	<0.05	0.05
Kjeldahl Nitrogen	Total	mg/L	0.16	0.15	0.11	0.06
Phosphorus	Total	mg/L	<0.05	<0.05	<0.05	0.05
Orthophosphate-P	Dissolved	mg/L	0.03	0.03	0.03	0.01
Organic Carbon	Total Nonpurgeable	mg/L	3.5	2.2	2.4	0.5
Organic Carbon	Dissolved Nonpurgeable	mg/L	2.9	1.9	1.9	0.5
Inorganic carbon	Total	mg/L	3.9	5.7	5.3	0.5
Cyanide	Total	mg/L	0.001	0.001	0.001	0.001
Metals Dissolved						
Silicon	Dissolved	mg/L	3.72	2.91	2.78	0.05
Sulfur	Dissolved	mg/L	1.9	1.2	1.1	0.3
Aluminum	Dissolved	mg/L	0.056	0.015	0.012	0.005
Antimony	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Arsenic	Dissolved	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Barium	Dissolved	mg/L	0.007	0.007	0.005	0.001
Beryllium	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Bismuth	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Boron	Dissolved	mg/L	<0.002	<0.002	<0.002	0.002
Cadmium	Dissolved	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Dissolved	mg/L	<0.0005	<0.0005	0.001	0.0005
Cobalt	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Copper	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Lead	Dissolved	mg/L	<0.0001	0.0002	<0.0001	0.0001
Lithium	Dissolved	mg/L	0.001	0.001	0.001	0.001
Molybdenum	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Nickel	Dissolved	mg/L	<0.0005	<0.0005	<0.0005	0.0005
Selenium	Dissolved	mg/L	0.0003	0.0003	0.0004	0.0002
Silver	Dissolved	mg/L	<0.0001	<0.0001	<0.0001	0.0001
Strontium	Dissolved	mg/L	0.066	0.086	0.074	0.001
Thallium	Dissolved	mg/L	<0.00005	<0.00005	<0.00005	0.00005
Tin	Dissolved	mg/L	<0.001	<0.001	<0.001	0.001
Titanium	Dissolved	mg/L	0.001	<0.0005	<0.0005	0.0005
Uranium	Dissolved	mg/L	0.0005	0.001	0.0009	0.0005
Vanadium	Dissolved	mg/L	0.0001	<0.0001	<0.0001	0.0001
Zinc	Dissolved	mg/L	0.003	0.003	0.003	0.001



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Whitehorse, YT, Canada
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Attn: Corey Fernets
Sampled By: Corey Fernets
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Project
ID: CMC-06-01
Name: CMC Metals
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		NWL Number	496018-13	496018-14	496018-15	
		Sample Date	Sep 23, 2006	Sep 23, 2006	Sep 23, 2006	
		Sample Description	CMC - M1	CMC - OC3	CMC - OC2	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Dissolved - Continued						
Subsample	Field Filtered	Yes	Yes	Yes		
Metals Total						
Calcium	Total	mg/L	6.4	8.2	7.4	0.2
Iron	Total	mg/L	<0.2	<0.2	<0.2	0.1
Magnesium	Total	mg/L	0.5	0.9	0.7	0.1
Manganese	Total	mg/L	<0.01	<0.01	<0.01	0.005
Potassium	Total	mg/L	<0.8	<0.8	<0.8	0.4
Silicon	Total	mg/L	3.44	2.73	2.50	0.05
Sodium	Total	mg/L	1	2	1	0.4
Sulfur	Total	mg/L	2	1	1	0.3
Aluminum	Total	mg/L	0.089	0.025	0.027	0.005
Antimony	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Arsenic	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Barium	Total	mg/L	0.01	0.007	0.007	0.001
Beryllium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Bismuth	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Boron	Total	mg/L	<0.004	<0.004	<0.004	0.002
Cadmium	Total	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Cobalt	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Copper	Total	mg/L	<0.002	<0.002	<0.002	0.001
Lead	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Lithium	Total	mg/L	<0.002	<0.002	<0.002	0.001
Molybdenum	Total	mg/L	<0.002	<0.002	<0.002	0.001
Nickel	Total	mg/L	<0.001	<0.001	<0.001	0.0005
Selenium	Total	mg/L	<0.0004	<0.0004	<0.0004	0.0002
Silver	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Strontium	Total	mg/L	0.067	0.083	0.075	0.001
Thallium	Total	mg/L	<0.0001	<0.0001	<0.0001	0.00005
Tin	Total	mg/L	<0.002	<0.002	<0.002	0.001
Titanium	Total	mg/L	0.002	<0.001	<0.001	0.0005
Uranium	Total	mg/L	<0.001	0.001	<0.001	0.0005
Vanadium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0001
Zinc	Total	mg/L	0.003	0.003	0.002	0.001
Zirconium	Total	mg/L	<0.002	<0.002	<0.002	0.001



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		NWL Number	496018-13	496018-14	496018-15	
		Sample Date	Sep 23, 2006	Sep 23, 2006	Sep 23, 2006	
		Sample Description	CMC - M1	CMC - OC3	CMC - OC2	
		Matrix	Water	Water	Water	
Analyte		Units	Results	Results	Results	Detection Limit
Physical and Aggregate Properties						
Solids	Total Suspended	mg/L	<2	<2	<2	1
Routine Water						
pH	@ 25 °C	pH	6.74	6.92	6.88	
Electrical Conductivity	Water	uS/cm	44	55	50	1
Calcium	Dissolved	mg/L	6.9	8.6	8.0	0.2
Magnesium	Dissolved	mg/L	0.6	0.9	0.7	0.1
Sodium	Dissolved	mg/L	1.4	1.5	1.4	0.4
Potassium	Dissolved	mg/L	<0.4	<0.4	<0.4	0.4
Iron	Dissolved	mg/L	0.03	0.04	0.02	0.01
Manganese	Dissolved	mg/L	<0.005	<0.005	<0.005	0.005
Nitrate - N	Dissolved	mg/L	<0.03	<0.03	<0.03	0.03
Nitrate and Nitrite - N		mg/L	<0.02	0.02	<0.02	0.02
Sulfate (SO4)	Dissolved	mg/L	4.8	3.4	3.0	0.1
Hydroxide	Water	mg/L	<5	<5	<5	5
Carbonate	Water	mg/L	<6	<6	<6	5
Bicarbonate	Water	mg/L	21	27	30	5
P-Alkalinity	as CaCO3	mg/L	<5	<5	<5	5
T-Alkalinity	as CaCO3	mg/L	18	22	24	5
Hardness	Dissolved as CaCO3	mg/L	20	25	23	



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		NWL Number	496018-16	496018-17	496018-18	
		Sample Date	Sep 21, 2006	Sep 21, 2006	Sep 21, 2006	
		Sample Description	CMC - 07	CMC - M2	CMC - 11	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	21100	17800	19300	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	9.4	0.5
Arsenic	Strong Acid Extractable	ug/g	8.4	5.1	81.2	0.2
Barium	Strong Acid Extractable	ug/g	92.1	158	94.1	0.03
Beryllium	Strong Acid Extractable	ug/g	3.37	1.47	1.48	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.4	1.2	7.21	0.05
Calcium	Strong Acid Extractable	ug/g	7260	6060	3620	2
Chromium	Strong Acid Extractable	ug/g	28.4	107	31.2	0.04
Cobalt	Strong Acid Extractable	ug/g	3.3	5.71	14.3	0.05
Copper	Strong Acid Extractable	ug/g	35.8	133	63.0	0.05
Iron	Strong Acid Extractable	ug/g	14000	25200	34400	1
Lead	Strong Acid Extractable	ug/g	19.5	26.0	293	0.3
Lithium	Strong Acid Extractable	ug/g	48.8	63.4	59.6	0.1
Magnesium	Strong Acid Extractable	ug/g	2450	3790	6620	1
Manganese	Strong Acid Extractable	ug/g	492	976	1230	0.3
Mercury	Strong Acid Extractable	ug/g	0.094	0.062	0.013	0.003
Molybdenum	Strong Acid Extractable	ug/g	4.4	13.0	2.5	0.05
Nickel	Strong Acid Extractable	ug/g	12.2	81.8	34.3	0.1
Phosphorus	Strong Acid Extractable	ug/g	1190	894	476	0.5
Potassium	Strong Acid Extractable	ug/g	1250	2610	2730	5
Selenium	Strong Acid Extractable	ug/g	0.8	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	349	148	630	1
Silver	Strong Acid Extractable	ug/g	1.3	0.5	9.7	0.2
Sodium	Strong Acid Extractable	ug/g	152	146	177	1
Strontium	Strong Acid Extractable	ug/g	86.2	76.6	46.5	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	2.1	0.3
Tin	Strong Acid Extractable	ug/g	1.1	1.6	6.4	0.2
Titanium	Strong Acid Extractable	ug/g	198	282	424	0.05
Vanadium	Strong Acid Extractable	ug/g	22.2	36.1	39.4	0.1
Zinc	Strong Acid Extractable	ug/g	95.4	393	4640	0.1
Zirconium	Strong Acid Extractable	ug/g	1.4	1.2	2.5	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	6.6	7.0	7.1	0.5



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Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
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		NWL Number	496018-19	496018-20	496018-21	
		Sample Date	Sep 21, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - U1	CMC - 05	CMC - 06	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	18700	11100	15900	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	8.3	8.1	8.3	0.2
Barium	Strong Acid Extractable	ug/g	147	44.2	104	0.03
Beryllium	Strong Acid Extractable	ug/g	1.08	0.76	1.81	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.98	0.3	0.90	0.05
Calcium	Strong Acid Extractable	ug/g	7850	3290	17700	2
Chromium	Strong Acid Extractable	ug/g	18.4	17.7	22.4	0.04
Cobalt	Strong Acid Extractable	ug/g	6.52	6.50	5.44	0.05
Copper	Strong Acid Extractable	ug/g	23.4	16.2	37.8	0.05
Iron	Strong Acid Extractable	ug/g	24400	22000	19300	1
Lead	Strong Acid Extractable	ug/g	15.1	9.6	34.1	0.3
Lithium	Strong Acid Extractable	ug/g	75.4	40.8	49.1	0.1
Magnesium	Strong Acid Extractable	ug/g	3700	4220	3300	1
Manganese	Strong Acid Extractable	ug/g	494	536	666	0.3
Mercury	Strong Acid Extractable	ug/g	0.060	0.014	0.102	0.003
Molybdenum	Strong Acid Extractable	ug/g	21.2	0.90	1.6	0.05
Nickel	Strong Acid Extractable	ug/g	14.9	17.3	17.7	0.1
Phosphorus	Strong Acid Extractable	ug/g	926	577	958	0.5
Potassium	Strong Acid Extractable	ug/g	1510	1110	1260	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	0.9	0.3
Silicon	Strong Acid Extractable	ug/g	92	210	395	1
Silver	Strong Acid Extractable	ug/g	0.5	<0.2	0.8	0.2
Sodium	Strong Acid Extractable	ug/g	125	126	147	1
Strontium	Strong Acid Extractable	ug/g	52.9	27.6	145	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	1.1	0.6	1.0	0.2
Titanium	Strong Acid Extractable	ug/g	252	246	148	0.05
Vanadium	Strong Acid Extractable	ug/g	30.1	21.2	19.1	0.1
Zinc	Strong Acid Extractable	ug/g	339	104	207	0.1
Zirconium	Strong Acid Extractable	ug/g	0.99	0.88	1.1	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	5.9	6.9	7.0	0.5



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		NWL Number		496018-22	496018-23	496018-24
		Sample Date		Sep 22, 2006	Sep 22, 2006	Sep 22, 2006
		Sample Description		CMC - 04	CMC - 03A	CMC - 03
		Matrix		Soil	Soil	Soil
Analyte	Units	Results	Results	Results	Detection Limit	
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	20700	8970	11800	1
Antimony	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	15.7	7.3	7.6	0.2
Barium	Strong Acid Extractable	ug/g	128	32.5	42.4	0.03
Beryllium	Strong Acid Extractable	ug/g	1.91	0.54	0.73	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	1.1	0.55	1.2	0.05
Calcium	Strong Acid Extractable	ug/g	9450	2600	5210	2
Chromium	Strong Acid Extractable	ug/g	87.4	19.4	25.1	0.04
Cobalt	Strong Acid Extractable	ug/g	16.5	4.9	6.12	0.05
Copper	Strong Acid Extractable	ug/g	64.2	10.2	18.0	0.05
Iron	Strong Acid Extractable	ug/g	53700	19300	21700	1
Lead	Strong Acid Extractable	ug/g	19.3	17.0	17.1	0.3
Lithium	Strong Acid Extractable	ug/g	63.8	33.8	41.0	0.1
Magnesium	Strong Acid Extractable	ug/g	6050	3340	3870	1
Manganese	Strong Acid Extractable	ug/g	1530	484	357	0.3
Mercury	Strong Acid Extractable	ug/g	0.073	0.007	0.026	0.003
Molybdenum	Strong Acid Extractable	ug/g	7.58	2.7	2.2	0.05
Nickel	Strong Acid Extractable	ug/g	82.9	17.1	23.0	0.1
Phosphorus	Strong Acid Extractable	ug/g	1080	380	519	0.5
Potassium	Strong Acid Extractable	ug/g	1780	931	1420	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	349	126	73	1
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	0.2	0.2
Sodium	Strong Acid Extractable	ug/g	211	69	207	1
Strontium	Strong Acid Extractable	ug/g	77.8	16.1	42.4	0.02
Thallium	Strong Acid Extractable	ug/g	2.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	1.4	0.8	0.9	0.2
Titanium	Strong Acid Extractable	ug/g	139	191	231	0.05
Vanadium	Strong Acid Extractable	ug/g	32.7	16.9	20.5	0.1
Zinc	Strong Acid Extractable	ug/g	220	216	265	0.1
Zirconium	Strong Acid Extractable	ug/g	2.6	0.84	0.90	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.4	7.3	7.4	0.5



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		NWL Number	496018-25	496018-26	496018-27	
		Sample Date	Sep 22, 2006	Sep 22, 2006	Sep 22, 2006	
		Sample Description	CMC - 01	CMC - 10	CMC - 02	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	25500	8010	14200	1
Antimony	Strong Acid Extractable	ug/g	1.4	<0.5	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	18.3	7.3	10.5	0.2
Barium	Strong Acid Extractable	ug/g	177	26.1	45.3	0.03
Beryllium	Strong Acid Extractable	ug/g	2.26	0.55	0.86	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	1.6	0.3	0.91	0.05
Calcium	Strong Acid Extractable	ug/g	8150	2120	12900	2
Chromium	Strong Acid Extractable	ug/g	70.2	14.6	27.3	0.04
Cobalt	Strong Acid Extractable	ug/g	14.7	4.6	11.7	0.05
Copper	Strong Acid Extractable	ug/g	39.2	10.1	58.7	0.05
Iron	Strong Acid Extractable	ug/g	39800	16800	23700	1
Lead	Strong Acid Extractable	ug/g	21.8	10.8	12.9	0.3
Lithium	Strong Acid Extractable	ug/g	88.5	27.6	50.5	0.1
Magnesium	Strong Acid Extractable	ug/g	6100	3080	4510	1
Manganese	Strong Acid Extractable	ug/g	<0.3	358	562	0.3
Mercury	Strong Acid Extractable	ug/g	0.086	0.004	0.086	0.003
Molybdenum	Strong Acid Extractable	ug/g	6.05	1.0	1.4	0.05
Nickel	Strong Acid Extractable	ug/g	60.7	14.3	53.2	0.1
Phosphorus	Strong Acid Extractable	ug/g	994	392	783	0.5
Potassium	Strong Acid Extractable	ug/g	3280	1120	1420	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	1.6	0.3
Silicon	Strong Acid Extractable	ug/g	407	153	108	1
Silver	Strong Acid Extractable	ug/g	0.4	<0.2	0.5	0.2
Sodium	Strong Acid Extractable	ug/g	283	92	104	1
Strontium	Strong Acid Extractable	ug/g	82.3	15.4	49.1	0.02
Thallium	Strong Acid Extractable	ug/g	4.2	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	1.4	0.7	0.4	0.2
Titanium	Strong Acid Extractable	ug/g	306	245	148	0.05
Vanadium	Strong Acid Extractable	ug/g	44.8	15.6	16.3	0.1
Zinc	Strong Acid Extractable	ug/g	230	131	185	0.1
Zirconium	Strong Acid Extractable	ug/g	2.3	0.67	1.5	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.4	7.2	7.2	0.5



Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
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Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
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		NWL Number	496018-28	496018-29	496018-30	
		Sample Date	Sep 23, 2006	Sep 23, 2006	Sep 23, 2006	
		Sample Description	CMC - M1	CMC - OC3	CMC - OC2	
		Matrix	Soil	Soil	Soil	
Analyte		Units	Results	Results	Results	Detection Limit
Metals Strong Acid Digestion						
Aluminum	Strong Acid Extractable	ug/g	8580	10200	8290	1
Antimony	Strong Acid Extractable	ug/g	<0.5	0.6	<0.5	0.5
Arsenic	Strong Acid Extractable	ug/g	2.4	2.4	1.7	0.2
Barium	Strong Acid Extractable	ug/g	52.3	85.6	53.4	0.03
Beryllium	Strong Acid Extractable	ug/g	0.90	0.84	0.65	0.01
Bismuth	Strong Acid Extractable	ug/g	<0.5	<0.5	<0.5	0.5
Cadmium	Strong Acid Extractable	ug/g	0.5	0.4	0.2	0.05
Calcium	Strong Acid Extractable	ug/g	3190	2550	2450	2
Chromium	Strong Acid Extractable	ug/g	8.70	25.0	6.99	0.04
Cobalt	Strong Acid Extractable	ug/g	2.7	3.5	2.2	0.05
Copper	Strong Acid Extractable	ug/g	13.1	9.34	8.01	0.05
Iron	Strong Acid Extractable	ug/g	14100	11700	10300	1
Lead	Strong Acid Extractable	ug/g	12.4	16.4	8.8	0.3
Lithium	Strong Acid Extractable	ug/g	27.9	33.7	30.2	0.1
Magnesium	Strong Acid Extractable	ug/g	2360	3350	2670	1
Manganese	Strong Acid Extractable	ug/g	308	213	134	0.3
Mercury	Strong Acid Extractable	ug/g	0.014	0.023	0.018	0.003
Molybdenum	Strong Acid Extractable	ug/g	1.4	2.3	0.77	0.05
Nickel	Strong Acid Extractable	ug/g	7.95	19.3	5.66	0.1
Phosphorus	Strong Acid Extractable	ug/g	470	556	718	0.5
Potassium	Strong Acid Extractable	ug/g	1190	1110	714	5
Selenium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Silicon	Strong Acid Extractable	ug/g	96	331	147	1
Silver	Strong Acid Extractable	ug/g	<0.2	<0.2	<0.2	0.2
Sodium	Strong Acid Extractable	ug/g	69	101	75	1
Strontium	Strong Acid Extractable	ug/g	34.6	24.5	19.9	0.02
Thallium	Strong Acid Extractable	ug/g	<0.3	<0.3	<0.3	0.3
Tin	Strong Acid Extractable	ug/g	1.1	1.0	0.9	0.2
Titanium	Strong Acid Extractable	ug/g	226	274	260	0.05
Vanadium	Strong Acid Extractable	ug/g	23.3	19.9	18.0	0.1
Zinc	Strong Acid Extractable	ug/g	287	110	78.2	0.1
Zirconium	Strong Acid Extractable	ug/g	0.71	1.7	0.86	0.05
Soil Acidity						
pH	1:2 Soil:Water	pH	7.0	6.6	5.5	0.5



Analytical Report

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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
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Approved by:

Walter Brandl
Operations Manager - Surrey



Quality Control

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Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
Titer	mL	10.2	10.0	101.6	97.0-103.0	✓
Material Used:	CC - Alkalinity					
Date Acquired:	Sep 29, 2006					
Acquired By:	Mark-Anthonv Castelli					



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Inorganic Nonmetallic Parameters

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mq/L	<0.05	0.00	-0.08	0.08	✓
Nitrogen	mq/L	<0.06	0.00	-0.06	0.06	✓
Phosphorus	mq/L	0.07	0.00	-0.10	0.10	✓
Orthophosphate-P	mq/L	0.02	0.00	-0.05	0.05	✓
Organic Carbon	mq/L	<0.5	0.0	-0.5	0.5	✓
Inorganic carbon	mq/L	<0.5	0.0	-0.5	0.5	✓
Cyanide	mq/L	<0.001	0.000	-0.005	0.005	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 29, 2006
Acquired By: Gordon Grensman

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Ammonium - N	mq/L	0.23	0.21	9.99	0.10	✓
Nitrogen	mg/L	7700	7520	9.99	0.12	✓
Phosphorus	mq/L	0.05	0.05	9.99	0.20	✓
Orthophosphate-P	mg/L	0.03	0.03	9.99	0.05	✓
Organic Carbon	mq/L	2.5	2.4	10.0	1.0	✓
Inorganic carbon	mq/L	5.3	5.3	10.0	1.0	✓
Cyanide	mq/L	0.001	0.001	9.990	0.002	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 29, 2006
Acquired By: Gordon Grensman



Quality Control

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NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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Inorganic Nonmetallic Parameters (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Ammonium - N	mq/L	3.08	2.99	2.59	3.39	✓
Nitrogen	mq/L	122	118.00	105.64	130.36	✓
Phosphorus	mq/L	8.17	8.00	7.20	8.80	✓
Organic Carbon	mq/L	115	116.0	97.6	134.5	✓
Inorganic carbon	mq/L	98.5	111.0	92.0	130.0	✓
Cyanide	mq/L	0.077	0.076	0.066	0.086	✓
Material Used:	Water High					
Date Acquired:	Sep 29, 2006					
Acquired By:	Gordon Grensmann					
Ammonium - N	mg/L	0.82	0.79	0.66	0.91	✓
Nitrogen	mg/L	14.3	14.90	13.53	16.27	✓
Phosphorus	mg/L	2.00	2.00	1.80	2.20	✓
Orthophosphate-P	mg/L	0.43	0.41	0.35	0.46	✓
Organic Carbon	mg/L	15.3	15.0	13.2	16.8	✓
Inorganic carbon	mg/L	16.0	15.1	12.6	17.6	✓
Cyanide	mg/L	0.016	0.016	0.014	0.018	✓
Material Used:	Water Low					
Date Acquired:	Sep 29, 2006					
Acquired By:	Gordon Grensmann					
Nitrogen	mq/L	1.00	1.03	0.90	1.16	✓
Orthophosphate-P	mq/L	0.08	0.08	0.07	0.09	✓
Organic Carbon	mq/L	3.5	3.0	2.4	3.7	✓
Inorganic carbon	mq/L	3.4	3.2	2.7	3.8	✓
Material Used:	Water Trace					
Date Acquired:	Sep 29, 2006					
Acquired By:	Darren Crichton					



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NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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Metals Dissolved

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mq/L	<0.05	0.00	-0.05	0.05	✓
Sulfur	mq/L	<0.3	0.0	-0.3	0.3	✓
Aluminum	uq/L	<5	0	-5	5	✓
Antimony	uq/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	uq/L	<0.2	0.0	-0.2	0.2	✓
Barium	uq/L	<1	0	-1	1	✓
Beryllium	uq/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	uq/L	<0.5	0.0	-0.5	0.5	✓
Boron	uq/L	<2	0	-2	2	✓
Cadmium	uq/L	<0.01	0.00	-0.01	0.01	✓
Chromium	uq/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	uq/L	<0.1	0.0	-0.1	0.1	✓
Copper	uq/L	<1	0	-1	1	✓
Lead	uq/L	<0.1	0.0	-0.1	0.1	✓
Lithium	uq/L	<1	0	-1	1	✓
Molybdenum	uq/L	<1	0	-1	1	✓
Nickel	uq/L	<0.5	0.0	-0.5	0.5	✓
Selenium	uq/L	<0.2	0.0	-0.2	0.2	✓
Silver	uq/L	<0.1	0.0	-0.1	0.1	✓
Strontium	uq/L	<1	0	-1	1	✓
Thallium	uq/L	<0.05	0.00	-0.05	0.05	✓
Tin	uq/L	<1	0	-1	1	✓
Titanium	uq/L	<0.5	0.0	-0.5	0.5	✓
Uranium	uq/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	uq/L	<0.1	0.0	-0.1	0.1	✓
Zinc	uq/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank
Date Acquired: Sep 29, 2006
Acquired By: Jennifer Persson



Quality Control

Norwest Labs
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Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
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Metals Dissolved (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Silicon	mq/L	4.47	4.72	9.99	0.01	✓
Sulfur	mq/L	3.7	3.8	10.0	0.1	✓
Aluminum	uq/L	6	6	10	11	✓
Antimony	uq/L	<0.2	<0.2	10.0	0.4	✓
Arsenic	uq/L	<0.2	<0.2	10.0	0.4	✓
Barium	uq/L	5	5	10	2	✓
Beryllium	uq/L	<0.1	<0.1	10.0	0.2	✓
Bismuth	uq/L	<0.5	<0.5	10.0	1.1	✓
Boron	ug/L	<2	<2	10	4	✓
Cadmium	uq/L	<0.01	<0.01	9.99	0.02	✓
Chromium	ug/L	<0.5	<0.5	10.0	1.1	✓
Cobalt	uq/L	<0.1	<0.1	10.0	0.2	✓
Copper	ug/L	<1	<1	10	2	✓
Lead	uq/L	<0.1	<0.1	10.0	0.2	✓
Lithium	ug/L	2	2	10	2	✓
Molybdenum	uq/L	1	1	10	2	✓
Nickel	uq/L	0.9	0.9	10.0	1.1	✓
Selenium	uq/L	<0.2	0.3	10.0	0.4	✓
Silver	uq/L	<0.1	<0.1	10.0	0.2	✓
Strontium	uq/L	96	96	10	2	✓
Thallium	uq/L	<0.05	<0.05	9.99	0.11	✓
Tin	uq/L	<1	<1	10	2	✓
Titanium	uq/L	<0.5	<0.5	10.0	1.1	✓
Uranium	ug/L	0.8	0.8	10.0	1.1	✓
Vanadium	uq/L	<0.1	<0.1	10.0	0.2	✓
Zinc	ug/L	4	4	10	2	✓

Material Used: Edmonton Duplicate
Date Acquired: Sep 29, 2006
Acquired By: Jennifer Persson



Quality Control

Norwest Labs
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Phone: (604) 514-3322
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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
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Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
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Acct. Code:

NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Silicon	mq/L	24.6	25.00	22.50	27.50	✓
Sulfur	mq/L	49.9	50.0	45.0	55.0	✓
Material Used:	Metals High					
Date Acquired:	Sep 29, 2006					
Acquired By:	To Thone					
Silicon	mg/L	0.52	0.50	0.45	0.55	✓
Sulfur	mg/L	1.1	1.0	0.9	1.2	✓
Aluminum	ug/L	987	1000	850	1150	✓
Antimony	ug/L	41.1	40.0	34.0	46.0	✓
Arsenic	ug/L	41.1	40.0	34.0	46.0	✓
Barium	ug/L	198	200	170	230	✓
Beryllium	ug/L	21.1	20.0	17.0	23.0	✓
Bismuth	ug/L	97.5	100.0	85.0	115.0	✓
Boron	ug/L	416	400	340	460	✓
Cadmium	ug/L	2.08	2.00	1.70	2.30	✓
Chromium	ug/L	101	100.0	85.0	115.0	✓
Cobalt	ug/L	20.5	20.0	17.0	23.0	✓
Copper	ug/L	197	200	170	230	✓
Lead	ug/L	20.6	20.0	17.0	23.0	✓
Lithium	ug/L	209	200	170	230	✓
Molybdenum	ug/L	200	200	170	230	✓
Nickel	ug/L	93.7	100.0	85.0	115.0	✓
Selenium	ug/L	38.7	40.0	34.0	46.0	✓
Silver	ug/L	20.4	20.0	17.0	23.0	✓
Strontium	ug/L	181	200	170	230	✓
Thallium	ug/L	10.7	10.00	8.50	11.50	✓
Tin	ug/L	191	200	170	230	✓
Titanium	ug/L	99.3	100.0	85.0	115.0	✓
Uranium	ug/L	93.2	100.0	85.0	115.0	✓
Vanadium	ug/L	19.4	20.0	17.0	23.0	✓
Zinc	ug/L	204	200	170	230	✓
Material Used:	Metals Low					
Date Acquired:	Sep 29, 2006					
Acquired By:	Jennifer Persson					



Quality Control

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Metals Dissolved (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	53	50	43	58	✓
Antimony	uq/L	2.1	2.0	1.7	2.3	✓
Arsenic	uq/L	2.1	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1	1.0	0.9	1.2	✓
Bismuth	uq/L	5.4	5.0	4.3	5.8	✓
Boron	uq/L	21	20	17	23	✓
Cadmium	uq/L	0.10	0.10	0.09	0.12	✓
Chromium	uq/L	5.2	5.0	4.3	5.8	✓
Cobalt	uq/L	1.0	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.0	1.0	0.9	1.2	✓
Lithium	uq/L	11	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	5.4	5.0	4.3	5.8	✓
Selenium	uq/L	2.2	2.0	1.7	2.3	✓
Silver	uq/L	1	1.0	0.9	1.2	✓
Strontium	uq/L	11	10	9	12	✓
Thallium	uq/L	0.52	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.1	5.0	4.3	5.8	✓
Uranium	uq/L	5.5	5.0	4.3	5.8	✓
Vanadium	uq/L	1.0	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓

Material Used: Metals Trace
Date Acquired: Sep 29, 2006
Acquired By: Jennifer Persson



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 29 of 45

Metals Strong Acid Digestion

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	<1	0	-3	3	✓
Antimony	uq/q	<0.5	0.0	0.0	0.0	✓
Arsenic	uq/q	<0.2	0.0	0.0	0.0	✓
Barium	uq/q	<0.03	0.00	-0.03	0.03	✓
Beryllium	uq/q	<0.01	0.00	0.00	0.00	✓
Bismuth	uq/q	<0.5	0.0	0.0	0.0	✓
Cadmium	uq/q	<0.05	0.00	0.00	0.00	✓
Calcium	uq/q	3	0	-6	6	✓
Chromium	uq/q	<0.04	0.00	0.00	0.00	✓
Cobalt	uq/q	<0.05	0.00	0.00	0.00	✓
Copper	uq/q	0.1	0.00	0.00	0.00	✓
Iron	uq/q	<1	0	-6	6	✓
Lead	uq/q	<0.3	0.0	0.0	0.0	✓
Lithium	uq/q	<0.1	0.0	0.0	0.0	✓
Magnesium	uq/q	<1	0	0	0	✓
Manganese	uq/q	<0.3	0.0	-0.1	0.1	✓
Molybdenum	uq/q	<0.05	0.00	0.00	0.00	✓
Nickel	uq/q	<0.1	0.000	-0.003	0.003	✓
Phosphorus	uq/q	<0.5	0.0	-0.1	0.1	✓
Potassium	uq/q	<5	0	-1	1	✓
Selenium	uq/q	<0.3	0.0	0.0	0.0	✓
Silicon	uq/q	<1	0	0	0	✓
Silver	uq/q	<0.2	0.0	0.0	0.0	✓
Sodium	uq/q	<1	0	0	0	✓
Strontium	uq/q	<0.02	0.00	0.00	0.00	✓
Tin	uq/q	<0.2	0.0	0.0	0.0	✓
Titanium	uq/q	0.05	0.00	0.00	0.00	✓
Vanadium	uq/q	<0.1	0.0	0.0	0.0	✓
Zinc	uq/q	<0.1	0.0	0.0	0.0	✓
Zirconium	uq/q	<0.05	0.00	0.00	0.00	✓

Material Used: Metals Blank - soils
Date Acquired: Oct 02, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
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Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 30 of 45

Metals Strong Acid Digestion (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Aluminum	uq/q	8010	7400	30	1	✓
Antimony	uq/q	<0.5	<0.5	30.0	3.0	✓
Arsenic	uq/q	8.4	7.0	30.0	0.2	✓
Barium	uq/q	92.1	71.4	30.00	0.01	✓
Beryllium	uq/q	3.37	2.62	30.00	0.01	✓
Cadmium	uq/q	0.4	0.3	30.00	0.01	✓
Calcium	uq/q	7260	5450	30	0	✓
Chromium	uq/q	28.6	22.1	30.00	0.05	✓
Cobalt	ug/g	7.84	7.08	30.00	0.05	✓
Copper	uq/q	35.8	26.9	30.00	0.05	✓
Iron	ug/g	16800	14900	30	0	✓
Lead	uq/q	3.6	3.5	30.0	0.1	✓
Magnesium	ug/g	3080	2820	30	1	✓
Manganese	uq/q	492	403	30.0	0.0	✓
Molybdenum	ug/g	4.4	3.5	30.00	0.14	✓
Nickel	uq/q	37.0	33.9	30.000	0.050	✓
Phosphorus	uq/q	392	311	30.0	0.5	✓
Potassium	uq/q	1250	1060	30	10	✓
Selenium	uq/q	0.8	0.4	30.0	0.5	✓
Silver	uq/q	1.3	1.0	30.0	0.2	✓
Sodium	uq/q	92	77	30	1	✓
Strontium	uq/q	86.2	65.1	30.00	0.03	✓
Tin	uq/q	1.1	0.9	30.0	0.1	✓
Vanadium	ug/g	46.3	39.9	30.0	0.0	✓
Zinc	uq/q	95.4	78.6	30.0	0.1	✓
Zirconium	ug/g	1.4	1.4	30.00	0.02	✓

Material Used: Metals Int. Duplicate - soils
Date Acquired: Oct 02, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 31 of 45

Metals Strong Acid Digestion (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	16800	18000	14070	21930	✓
Antimony	uq/q	5.3	6.2	1.4	11.0	✓
Arsenic	uq/q	15.5	16.0	13.9	18.1	✓
Barium	uq/q	72.9	78.00	63.00	93.00	✓
Beryllium	uq/q	0.42	0.50	0.40	0.60	✓
Calcium	uq/q	2640	3050	2150	3950	✓
Chromium	uq/q	23.8	28.00	22.00	34.00	✓
Cobalt	uq/q	10.4	11.80	8.80	14.80	✓
Copper	uq/q	43.3	45.90	37.80	54.00	✓
Iron	uq/q	30800	31300	13300	49300	✓
Lead	uq/q	13.4	14.9	11.6	18.2	✓
Magnesium	uq/q	5140	5930	4730	7130	✓
Manganese	uq/q	1090	1170.0	1035.0	1305.0	✓
Mercury	uq/q	0.114	0.110	0.062	0.158	✓
Molybdenum	uq/q	0.64	1.00	0.40	1.60	✓
Nickel	uq/q	16.8	18.000	15.330	20.670	✓
Phosphorus	uq/q	753	782.0	563.0	1001.0	✓
Potassium	uq/q	527	617	227	1007	✓
Selenium	uq/q	<0.3	0.9	-1.2	2.9	✓
Silver	uq/q	0.2	0.2	0.0	0.3	✓
Sodium	uq/q	299	334	226	442	✓
Strontium	uq/q	9.35	11.70	8.70	14.70	✓
Thallium	uq/q	<0.3	0.7	-0.8	2.1	✓
Titanium	uq/q	375	589.00	64.00	1114.00	✓
Vanadium	uq/q	51.4	55.7	47.6	63.8	✓
Zinc	uq/q	63.3	72.5	62.6	82.4	✓

Material Used: S0525 CANMET TILL-1 - metals in soil
Date Acquired: Oct 02, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

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Metals Strong Acid Digestion (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/q	14400	17950	13294	22606	✓
Antimony	uq/q	10.5	13.9	7.9	19.9	✓
Arsenic	uq/q	85.3	91.4	72.2	110.6	✓
Barium	uq/q	165	185.00	140.00	230.00	✓
Beryllium	uq/q	0.96	1.03	0.85	1.21	✓
Cadmium	uq/q	36.2	40.90	32.92	48.88	✓
Calcium	uq/q	18900	20400	14400	26400	✓
Chromium	uq/q	16.4	20.30	14.36	26.24	✓
Cobalt	uq/q	6.35	7.30	4.75	9.85	✓
Copper	uq/q	99.8	108.00	85.20	130.80	✓
Iron	uq/q	19300	22500	16500	28500	✓
Lead	uq/q	887	1097.0	836.0	1358.0	✓
Magnesium	uq/q	7800	7500	6900	8100	✓
Manganese	uq/q	471	515.0	365.0	665.0	✓
Mercury	uq/q	6.17	7.040	4.670	9.410	✓
Molybdenum	uq/q	0.99	1.02	0.72	1.32	✓
Nickel	uq/q	14.5	17.000	13.430	20.570	✓
Phosphorus	uq/q	619	677.0	515.0	839.0	✓
Potassium	uq/q	3820	4050	2850	5250	✓
Selenium	uq/q	0.3	0.9	-1.1	2.8	✓
Silver	uq/q	3.5	2.0	-4.3	8.3	✓
Sodium	uq/q	228	226	76	376	✓
Strontium	uq/q	40.6	40.00	28.00	52.00	✓
Thallium	uq/q	0.9	1.5	0.3	2.7	✓
Tin	uq/q	1.9	2.3	1.5	3.1	✓
Titanium	uq/q	97.0	281.00	191.00	371.00	✓
Vanadium	uq/q	36.8	44.0	33.5	54.5	✓
Zinc	uq/q	287	320.0	245.0	395.0	✓

Material Used: S0529 NIST 2711 - metals in soil
Date Acquired: Oct 02, 2006
Acquired By: Kelly Restiaux



Quality Control

Norwest Labs
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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 33 of 45

Metals Total

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	<0.2	0.0	0.0	0.1	✓
Iron	mq/L	<0.1	0.0	0.0	0.0	✓
Magnesium	mq/L	<0.1	0.0	0.0	0.0	✓
Manganese	mq/L	<0.005	0.000	-0.001	0.001	✓
Potassium	mq/L	<0.4	0.0	-0.1	0.1	✓
Silicon	mq/L	<0.05	0.02	-0.04	0.09	✓
Sodium	mq/L	<0.4	0.1	-0.2	0.3	✓
Sulfur	mq/L	<0.3	0.0	-0.3	0.3	✓
Aluminum	uq/L	<5	0	-5	5	✓
Antimony	uq/L	<0.2	0.0	-0.2	0.2	✓
Arsenic	uq/L	<0.2	0.0	-0.2	0.2	✓
Barium	uq/L	<1	0	-1	1	✓
Beryllium	uq/L	<0.1	0.0	-0.1	0.1	✓
Bismuth	uq/L	<0.5	0.0	-0.5	0.5	✓
Boron	uq/L	<2	0	-2	2	✓
Cadmium	uq/L	<0.01	0.00	-0.01	0.01	✓
Chromium	uq/L	<0.5	0.0	-0.5	0.5	✓
Cobalt	uq/L	<0.1	0.0	-0.1	0.1	✓
Copper	uq/L	<1	0	-1	1	✓
Lead	uq/L	<0.1	0.0	-0.1	0.1	✓
Lithium	uq/L	<1	0	-1	1	✓
Molybdenum	uq/L	<1	0	-1	1	✓
Nickel	uq/L	<0.5	0.0	-0.5	0.5	✓
Selenium	uq/L	<0.2	0.0	-0.2	0.2	✓
Silver	uq/L	<0.1	0.0	-0.1	0.1	✓
Strontium	uq/L	<1	0	-1	1	✓
Thallium	uq/L	<0.05	0.00	-0.05	0.05	✓
Tin	uq/L	<1	0	-1	1	✓
Titanium	uq/L	<0.5	0.0	-0.5	0.5	✓
Uranium	uq/L	<0.5	0.0	-0.5	0.5	✓
Vanadium	uq/L	<0.1	0.0	-0.1	0.1	✓
Zinc	uq/L	<1	0	-1	1	✓
Zirconium	uq/L	<1	0	-1	1	✓

Material Used: Edmonton Method Blank
Date Acquired: Oct 02, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 34 of 45

Metals Total (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mq/L	7.4	7.4	15.0	0.6	✓
Iron	mq/L	<0.2	<0.2	15.0	0.2	✓
Magnesium	mq/L	0.7	0.7	15.0	0.4	✓
Manganese	mq/L	<0.01	<0.01	15.000	0.010	✓
Potassium	mq/L	<0.8	<0.8	15.0	1.2	✓
Silicon	mq/L	2.50	2.72	15.00	0.10	✓
Sodium	mq/L	1	1	15.0	1.2	✓
Sulfur	mq/L	1	1	15.0	0.1	✓
Aluminum	ug/L	20	20	15	11	✓
Antimony	ug/L	<0.4	<0.4	15.0	0.4	✓
Arsenic	ug/L	<0.4	<0.4	15.0	0.4	✓
Barium	ug/L	10	9	15	2	✓
Beryllium	ug/L	<0.2	<0.2	15.0	0.2	✓
Bismuth	ug/L	<1	<1	15.0	1.1	✓
Boron	ug/L	<4	<4	15	4	✓
Cadmium	ug/L	<0.02	<0.02	15.00	0.02	✓
Chromium	ug/L	<1	<1	15.0	1.1	✓
Cobalt	ug/L	<0.2	<0.2	15.0	0.2	✓
Copper	ug/L	<2	<2	15	2	✓
Lead	ug/L	<0.2	<0.2	15.0	0.2	✓
Lithium	ug/L	<2	<2	15	2	✓
Molybdenum	ug/L	<2	<2	15	2	✓
Nickel	ug/L	<1	<1	15.0	1.1	✓
Selenium	ug/L	<0.4	<0.4	15.0	0.4	✓
Silver	ug/L	<0.2	<0.2	15.0	0.2	✓
Strontium	ug/L	100	98	15	2	✓
Thallium	ug/L	<0.1	<0.1	15.00	0.11	✓
Tin	ug/L	<2	<2	15	2	✓
Titanium	ug/L	<1	<1	15.0	1.1	✓
Uranium	ug/L	<1	<1	15.0	1.1	✓
Vanadium	ug/L	<0.2	<0.2	15.0	0.2	✓
Zinc	ug/L	4	5	15	2	✓
Zirconium	ug/L	<2	<2	15	2	✓

Material Used: Edmonton Duplicate
Date Acquired: Oct 02, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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Bill to: Access Mining Consultants Ltd.
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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 35 of 45

Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	52.2	50.0	45.0	55.0	✓
Iron	mq/L	2.0	2.0	1.8	2.2	✓
Magnesium	mq/L	19.9	20.0	18.0	22.0	✓
Manganese	mq/L	0.506	0.500	0.450	0.550	✓
Potassium	mq/L	49.5	50.0	45.0	55.0	✓
Silicon	mq/L	4.77	5.00	4.50	5.50	✓
Sodium	mq/L	50.2	50.0	45.0	55.0	✓
Sulfur	mq/L	9.2	10.0	9.0	11.0	✓
Aluminum	uq/L	328	322	273	371	✓
Antimony	uq/L	11.8	11.5	10.2	12.8	✓
Arsenic	uq/L	11.7	11.5	10.3	12.7	✓
Barium	uq/L	63	61	52	69	✓
Beryllium	uq/L	6.3	5.9	4.9	7.0	✓
Bismuth	uq/L	31.8	30.2	26.0	34.4	✓
Boron	uq/L	124	125	102	148	✓
Cadmium	uq/L	0.66	0.63	0.47	0.78	✓
Chromium	uq/L	32.7	31.8	27.5	36.2	✓
Cobalt	uq/L	6.9	6.4	5.4	7.5	✓
Copper	uq/L	64	63	55	70	✓
Lead	uq/L	6.5	6.2	5.4	7.0	✓
Lithium	uq/L	63	65	53	76	✓
Molybdenum	uq/L	63	61	53	69	✓
Nickel	uq/L	31.0	31.4	27.0	35.8	✓
Selenium	uq/L	11.6	11.0	9.7	12.3	✓
Silver	uq/L	6.2	6.2	5.5	7.0	✓
Strontium	uq/L	65	64	55	72	✓
Thallium	uq/L	3.45	3.14	2.56	3.72	✓
Tin	uq/L	59	59	52	66	✓
Titanium	uq/L	34.3	31.5	27.0	36.0	✓
Uranium	uq/L	32.9	30.8	26.9	34.7	✓
Vanadium	uq/L	6.5	6.5	5.4	7.6	✓
Zinc	uq/L	65	59	49	69	✓
Zirconium	uq/L	63	62	53	72	✓

Material Used: Edmonton Digestion Check
Date Acquired: Oct 02, 2006
Acquired By: Alexandra Robert



Quality Control

Norwest Labs
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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
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3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
Date Reported: Oct 03, 2006
Report Number: 911014

Page: 36 of 45

Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	248	250.0	225.0	275.0	✓
Iron	mq/L	9.9	10.0	9.0	11.0	✓
Magnesium	mq/L	98.7	100.0	90.0	110.0	✓
Manganese	mq/L	2.44	2.500	2.250	2.750	✓
Potassium	mq/L	246	250.0	225.0	275.0	✓
Silicon	mq/L	23.7	25.00	22.50	27.50	✓
Sodium	mq/L	249	250.0	225.0	275.0	✓
Sulfur	mq/L	48.4	50.0	45.0	55.0	✓
Material Used:	Metals High					
Date Acquired:	Oct 02, 2006					
Acquired By:	Bvul Sim					



Quality Control

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Bill to: Access Mining Consultants Ltd.
Report to: Access Mining Consultants Ltd.
3 Calcite Business Centre
151 Industrial Road
Whitehorse, YT, Canada
Y1A 2V3
Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 496018
Control Number:
Date Received: Sep 27, 2006
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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	5.1	5.0	4.5	5.5	✓
Iron	mq/L	0.2	0.2	0.2	0.2	✓
Magnesium	mq/L	2.0	2.0	1.8	2.2	✓
Manganese	mq/L	0.049	0.050	0.045	0.055	✓
Potassium	mq/L	5.0	5.0	4.5	5.5	✓
Silicon	mq/L	0.48	0.50	0.45	0.55	✓
Sodium	mq/L	5.1	5.0	4.5	5.5	✓
Sulfur	mq/L	0.9	1.0	0.9	1.2	✓
Aluminum	uq/L	971	1000	850	1150	✓
Antimony	uq/L	40.0	40.0	34.0	46.0	✓
Arsenic	uq/L	40.1	40.0	34.0	46.0	✓
Barium	uq/L	198	200	170	230	✓
Beryllium	uq/L	21.8	20.0	17.0	23.0	✓
Bismuth	uq/L	103	100.0	85.0	115.0	✓
Boron	uq/L	394	400	340	460	✓
Cadmium	uq/L	1.86	2.00	1.70	2.30	✓
Chromium	uq/L	98.9	100.0	85.0	115.0	✓
Cobalt	uq/L	21.2	20.0	17.0	23.0	✓
Copper	uq/L	193	200	170	230	✓
Lead	uq/L	21.3	20.0	17.0	23.0	✓
Lithium	uq/L	200	200	170	230	✓
Molybdenum	uq/L	192	200	170	230	✓
Nickel	uq/L	96.4	100.0	85.0	115.0	✓
Selenium	uq/L	39.7	40.0	34.0	46.0	✓
Silver	uq/L	20.8	20.0	17.0	23.0	✓
Strontium	uq/L	197	200	170	230	✓
Thallium	uq/L	11.2	10.00	8.50	11.50	✓
Tin	uq/L	184	200	170	230	✓
Titanium	uq/L	103	100.0	85.0	115.0	✓
Uranium	uq/L	104	100.0	85.0	115.0	✓
Vanadium	uq/L	18.5	20.0	17.0	23.0	✓
Zinc	uq/L	209	200	170	230	✓
Zirconium	uq/L	195	200	170	230	✓

Material Used: Metals Low
Date Acquired: Oct 02, 2006
Acquired By: Alexandra Robert



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Metals Total (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Aluminum	uq/L	53	50	43	58	✓
Antimony	uq/L	2.0	2.0	1.7	2.3	✓
Arsenic	uq/L	2.0	2.0	1.7	2.3	✓
Barium	uq/L	10	10	9	12	✓
Beryllium	uq/L	1.1	1.0	0.9	1.2	✓
Bismuth	uq/L	5.2	5.0	4.3	5.8	✓
Boron	uq/L	20	20	17	23	✓
Cadmium	uq/L	0.10	0.10	0.09	0.12	✓
Chromium	uq/L	5.2	5.0	4.3	5.8	✓
Cobalt	uq/L	1.1	1.0	0.9	1.2	✓
Copper	uq/L	10	10	9	12	✓
Lead	uq/L	1.0	1.0	0.9	1.2	✓
Lithium	uq/L	10	10	9	12	✓
Molybdenum	uq/L	10	10	9	12	✓
Nickel	uq/L	4.9	5.0	4.3	5.8	✓
Selenium	uq/L	2.0	2.0	1.7	2.3	✓
Silver	uq/L	1.1	1.0	0.9	1.2	✓
Strontium	uq/L	11	10	9	12	✓
Thallium	uq/L	0.54	0.50	0.43	0.58	✓
Tin	uq/L	10	10	9	12	✓
Titanium	uq/L	5.1	5.0	4.3	5.8	✓
Uranium	uq/L	5.4	5.0	4.3	5.8	✓
Vanadium	uq/L	1.0	1.0	0.9	1.2	✓
Zinc	uq/L	10	10	9	12	✓
Zirconium	uq/L	10	10	9	12	✓

Material Used: Metals Trace
Date Acquired: Oct 02, 2006
Acquired By: Alexandra Robert



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Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
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Physical and Aggregate Properties

Certified Reference Material		Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
Solids		mq/L	44	134	120	148	✓
Material Used:		W-SLD2-					
Date Acquired:		Sep 28, 2006					
Acquired By:		Ken Dvkstra					
Replicates		Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Solids		mq/L	23	20	30	5	✓
Material Used:		Surrey - Int. Duplicate 1					
Date Acquired:		Sep 28, 2006					
Acquired By:		Vanessa Li					
Control Sample		Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Solids		mg/L	24	24	18	30	✓
Material Used:		QL-SLD-					
Date Acquired:		Sep 28, 2006					
Acquired By:		Vanessa Li					
Solids		mq/L	422	400	310	490	✓
Material Used:		Q-SLD-					
Date Acquired:		Sep 28, 2006					
Acquired By:		Vanessa Li					
Solids		mq/L	<2	0	-1	1	✓
Material Used:		Surrey Blank 2					
Date Acquired:		Sep 28, 2006					
Acquired By:		Vanessa Li					



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Routine Water

Blanks	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Calcium	mq/L	<0.2	0.0	-0.2	0.2	✓
Magnesium	mq/L	<0.1	0.0	-0.1	0.1	✓
Sodium	mq/L	<0.4	0.0	-0.4	0.4	✓
Potassium	mq/L	<0.4	0.0	-0.4	0.4	✓
Iron	mq/L	<0.01	0.00	-0.01	0.01	✓
Manganese	mq/L	<0.005	0.000	-0.005	0.005	✓
Nitrate - N	mq/L	<0.01	0.00	-0.01	0.01	✓
Nitrite - N	mq/L	<0.005	0.000	-0.005	0.005	✓

Material Used: Edmonton Method Blank

Date Acquired: Sep 29, 2006

Acquired By: Kali Hicks

Nitrate - N	mg/L	<0.03	0.00	-0.03	0.03	✓
Sulfate (SO4)	mg/L	<0.1	0.00	-0.10	0.10	✓

Material Used: Surrey Blank

Date Acquired: Sep 28, 2006

Acquired By: Ken Dijkstra

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.00	100.13	99.18-101.22	✓

Material Used: CC - pH

Date Acquired: Sep 29, 2006

Acquired By: Mark-Anthony Castelli

Nitrate - N	mg/L	1.0	1.00	96.90	90.01-109.99	✓
Sulfate (SO4)	mg/L	7.4	7.50	99.07	90.01-109.99	✓

Material Used: QM-An-

Date Acquired: Sep 28, 2006

Acquired By: Ken Dijkstra

Certified Reference Material	Units	Measured	Target	Lower Limit	Upper Limit	Passed QC
T-Alkalinity	mg/L	994	1000	900	1100	✓

Material Used: QL - Alk -

Date Acquired: Sep 29, 2006

Acquired By: Mark-Anthony Castelli

Electrical Conductivity	uS/cm	449	445	400	490	✓
Nitrate - N	mq/L	2.0	2.48	1.97	2.99	✓

Sulfate (SO4)	mq/L	61	65.05	55.29	74.91	✓

T-Alkalinity	mq/L	54	54	49	60	✓

Material Used: S1021 - minerals

Date Acquired: Sep 29, 2006

Acquired By: Mark-Anthony Castelli



Quality Control

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Attn: Corey Fernets
Sampled By: Corey Fernets
Company: ACG

Project
ID: CMC-06-01
Name: CMC Metals
Location: Silver Hart
LSD:
P.O.:
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NWL Lot ID: 496018
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Date Received: Sep 27, 2006
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Routine Water (Continued...)

Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
Calcium	mq/L	21.2	20.9	10.0	0.6	✓
Magnesium	mq/L	4.1	4.0	10.0	0.7	✓
Sodium	mq/L	7.4	7.3	10.0	1.2	✓
Potassium	mq/L	1.1	1.0	10.0	1.2	✓
Iron	mq/L	0.16	0.16	9.99	0.05	✓
Manganese	mq/L	0.006	0.006	9.990	0.010	✓
Nitrate - N	mq/L	0.02	0.02	9.99	0.01	✓
Nitrite - N	mq/L	<0.005	<0.005	9.990	0.010	✓
Material Used:	Edmonton Duplicate					
Date Acquired:	Sep 29, 2006					
Acquired By:	Kali Hicks					
pH	pH	7.51	7.48	0.09	0.10	✓
Electrical Conductivity	uS/cm	626	628	10	5	✓
Nitrate - N	mq/L	<0.03	<0.03	19.98	0.05	✓
Sulfate (SO4)	mq/L	2.3	2.4	19.98	0.50	✓
T-Alkalinity	mq/L	27	26	20	25	✓
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	Sep 29, 2006					
Acquired By:	Mark-Anthony Castelli					



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Routine Water (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Electrical Conductivity	uS/cm	<1	3	0	6	✓
Material Used:	DI water 1					
Date Acquired:	Sep 28, 2006					
Acquired By:	Mvrna Iglesias					
Electrical Conductivity	uS/cm	146	147	137	157	✓
Material Used:	EC-CC1-					
Date Acquired:	Sep 28, 2006					
Acquired By:	Mvrna Iglesias					
Electrical Conductivity	uS/cm	1420	1412	1382	1442	✓
Material Used:	EC-CC2					
Date Acquired:	Sep 28, 2006					
Acquired By:	Mvrna Iglesias					
Electrical Conductivity	uS/cm	7000	6668	6568	6768	✓
Material Used:	EC-CC3-					
Date Acquired:	Sep 28, 2006					
Acquired By:	Mvrna Iglesias					
Calcium	mg/L	244	250.0	225.0	275.0	✓
Magnesium	mg/L	99.4	100.0	90.0	110.0	✓
Sodium	mg/L	246	250.0	225.0	275.0	✓
Potassium	mg/L	262	250.0	225.0	275.0	✓
Iron	mg/L	9.68	10.00	9.01	10.99	✓
Manganese	mg/L	2.42	2.500	2.260	2.740	✓
Material Used:	Metals High					
Date Acquired:	Sep 29, 2006					
Acquired By:	To Thong					
Calcium	mq/L	5.4	5.0	4.5	5.5	✓
Magnesium	mq/L	2.2	2.0	1.8	2.2	✓
Sodium	mq/L	5.0	5.0	4.5	5.5	✓
Potassium	mq/L	5.1	5.0	4.5	5.5	✓
Iron	mq/L	0.20	0.20	0.18	0.22	✓
Manganese	mq/L	0.055	0.050	0.045	0.055	✓
Material Used:	Metals Low					
Date Acquired:	Sep 29, 2006					
Acquired By:	To Thong					
Electrical Conductivity	uS/cm	<1	1	0	2	✓
Material Used:	RO water 1					
Date Acquired:	Sep 28, 2006					
Acquired By:	Mvrna Iglesias					



Quality Control

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Company: ACG

Project
ID: CMC-06-01
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Routine Water (Continued...)

Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
Nitrate - N	mq/L	10.3	10.00	9.51	10.49	✓
Nitrite - N	mq/L	10.3	10.000	9.562	10.438	✓
Material Used:	Water High					
Date Acquired:	Sep 29, 2006					
Acquired By:	Kali Hicks					
Nitrate - N	mg/L	0.53	0.50	0.44	0.56	✓
Nitrite - N	mg/L	0.517	0.495	0.437	0.553	✓
Material Used:	Water Low					
Date Acquired:	Sep 29, 2006					
Acquired By:	Kali Hicks					

Soil Acidity

Calibration Check	Units	Measured	Target	% Recovery	Criteria (%)	Passed QC
pH	pH	8.0	8.0	99.8	99.6-100.8	✓
Material Used:	CC - pH					
Date Acquired:	Oct 02, 2006					
Acquired By:	Mvrna Iglesias					
Replicates	Units	Replicate1	Replicate2	% RSD Criteria	Absolute Criteria	Passed QC
pH	pH	8.5	8.5	0.2	0.1	✓
Material Used:	Surrey - Int. Duplicate 1					
Date Acquired:	Oct 02, 2006					
Acquired By:	Myrna Iglesias					
Control Sample	Units	Measured	Mean	Lower Limit	Upper Limit	Passed QC
pH	pH	6.0	6.0	5.9	6.2	✓
Material Used:	Soil pH 142					
Date Acquired:	Oct 02, 2006					
Acquired By:	Myrna Iglesias					



Methodology and Notes

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Method of Analysis:

MethodName	Reference	Method	Date Analysis Started	Location
Alkalinity (Surrey)	APHA	* Titration Method, 2320 B	3-Oct-06	Norwest Labs Surrey
Ammonium-N in Water	APHA	* Automated Phenate Method, 4500-NH3 G	29-Sep-06	Norwest Labs Edmonton
Anions (Routine) by Ion Chromatography	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	2-Oct-06	Norwest Labs Edmonton
Anions by IEC in water (Surrey)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	3-Oct-06	Norwest Labs Surrey
Carbon Inorganic (Total) in water (TIC)	APHA	High-Temperature Combustion Method, 5310 B	29-Sep-06	Norwest Labs Edmonton
Carbon Organic (Dissolved) in water (DOC)	APHA	High-Temperature Combustion Method, 5310 B	3-Oct-06	Norwest Labs Edmonton
Carbon Organic (Total) in water (TOC)	APHA	High-Temperature Combustion Method, 5310 B	29-Sep-06	Norwest Labs Edmonton
Conductivity (Surrey)	APHA	* Conductivity - Laboratory Method, 2510 B	29-Sep-06	Norwest Labs Surrey
Cyanide (Total) in water	US EPA	* US EPA method, 335.3	29-Sep-06	Norwest Labs Edmonton
Kjeldahl Nitrogen & Phosphorus (Total) in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	2-Oct-06	Norwest Labs Edmonton
Metals (Strong Acid Leachable) in soils	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	2-Oct-06	Norwest Labs Surrey
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	2-Oct-06	Norwest Labs Edmonton
Metals ICP-MS (Dissolved) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	2-Oct-06	Norwest Labs Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	29-Sep-06	Norwest Labs Edmonton
Metals ICP-MS (Total) in water	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	3-Oct-06	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	29-Sep-06	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	29-Sep-06	Norwest Labs Edmonton
Metals Trace (Dissolved) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	30-Sep-06	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	29-Sep-06	Norwest Labs Edmonton
Metals Trace (Total) in water	APHA	* Inductively Coupled Plasma (ICP) Method, 3120 B	3-Oct-06	Norwest Labs Edmonton

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Orthophosphate-P in Water	APHA	* Automated Ascorbic Acid Reduction Method, 4500-P F	2-Oct-06	Norwest Labs Edmonton
pH and EC in Soil - 1:2 (Surrey)	McKeague	* 1:2 Soil:Water Ratio, 4.12	2-Oct-06	Norwest Labs Surrey
pH in water (Surrey)	APHA	* Electrometric Method, 4500-H+ B	30-Sep-06	Norwest Labs Surrey
pH in water (Surrey)	APHA	* Electrometric Method, 4500-H+ B	3-Oct-06	Norwest Labs Surrey
Preparation - Seive to -10 mesh	B.C.M.O.E	* Strong Acid Leachable Metals (SALM) in Soil, V 1.0, SALM	3-Oct-06	Norwest Labs Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	28-Sep-06	Norwest Labs Surrey
Solids Suspended (Total, Fixed and Volatile)	APHA	* Total Suspended Solids Dried at 103-105°C, 2540 D	28-Sep-06	Norwest Labs Surrey
Total and Kjeldahl Nitrogen (Total) in Water	ISO	* Water Quality - Determination of nitrogen, ISO/TR 11905-2	3-Oct-06	Norwest Labs Edmonton

* Norwest method(s) is based on reference method

References:

APHA	Standard Methods for the Examination of Water and Wastewater
B.C.M.O.E	B.C. Ministry of Environment
ISO	International Organization for Standardization
McKeague	Manual on Soil Sampling and Methods of Analysis
US EPA	US Environmental Protection Agency Test Methods

Comments:

Analysis was completed on samples 1-15 that exceeded the recommended holding time for alkalinity analysis.
Analysis was completed on samples 1-15 that exceeded the recommended holding time for pH analysis.
Some MS total metal results were less than dissolved metal results for sample 496018-1 to 15. The results were verified and are within the method uncertainty. Oct 3/06
Some trace total metal results were less than dissolved metal results for samples 1 and 2. The results were confirmed. BS October 3 2006
Some trace total metal results were less than dissolved metal results for samples 3-15. The results were verified and are within the method uncertainty. BS October 3 2006

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YESAA Executive Committee Submission

APPENDIX C
VEGETATION SURVEY RESULTS

November 2009

**Vascular plant species observed at the CMC Metals Ltd project
area during September 2006 survey**

Closed Alpine Fir

<i>Abies lasiocarpa</i>	Alpine Fir
<i>Achillea millefolium</i>	Common Yarrow
<i>Agoseris aurantiaca</i>	Mountain Dandelion
<i>Alnus crispa</i>	Mountain Alder
<i>Arnica chamissonis</i>	Meadow Arnica
<i>Artemisia norvegica</i>	Mountain Sagewort
<i>Betula glandulosa</i>	Shrub Birch
<i>Calamagrostis canadensis</i>	Blue-joint Reed-grass
<i>Cornus canadensis</i>	Bunchberry
<i>Empetrum nigrum</i>	Crowberry
<i>Epilobium angustifolium</i>	Fireweed
<i>Epilobium latifolium</i>	Broad-leaved Willowherb
<i>Equisetum arvense</i>	Common Horsetail
<i>Erigeron</i> sp.	Fleabane
<i>Festuca altaica</i>	Northern Rough Fescue
<i>Hierochloe alpine</i>	Alpine Holy Grass
<i>Juncus drummondii</i>	Drummond's Rush
<i>Juncus mertensianus</i>	Merten's Rush
<i>Abies lasiocarpa</i>	Alpine Fir
<i>Ledum groenlandicum</i>	Labrador Tea
<i>Lupinus arcticus</i>	Arctic Lupine
<i>Oxytropis campestris</i>	Field Locoweed
<i>Petasites frigidus</i>	Sweet Coltsfoot
<i>Picea glauca</i>	White Spruce
<i>Pinus contorta</i>	Lodgepole Pine
<i>Poa alpina</i>	Alpine Bluegrass
<i>Populus balsamifera</i>	Balsam Poplar
<i>Ribes hudsonianum</i>	Black Currant
<i>Rosa acicularis</i>	Prickly Rose
<i>Rubus idaeus</i>	Raspberry
<i>Salix bebbiana</i>	Bebb's Willow
<i>Salix glauca</i>	Grey-leaved Willow
<i>Salix richardsonii</i>	Richardson's Willow
<i>Viburnum edule</i>	Highbush Cranberry

Open Alpine Fir

<i>Abies lasiocarpa</i>	Alpine Fir
<i>Arnica chamissonis</i>	Meadow Arnica
<i>Artemisia norvegica</i>	Mountain Sagewort
<i>Betula glandulosa</i>	Shrub Birch
<i>Calamagrostis canadensis</i>	Blue-joint Reed-grass
<i>Carex podocarpa</i>	Graceful Mountain Sedge
<i>Cassiope tetragona</i>	Arctic White Heather
<i>Empetrum nigrum</i>	Crowberry
<i>Eriophorum</i> sp.	Cotton-grass
<i>Festuca altaica</i>	Northern Rough Fescue
<i>Hieraceum triste</i>	Mourning Hawkweed
<i>Hierochloe alpina</i>	Alpine Holy Grass
<i>Juncus drummondii</i>	Drummond's Rush
<i>Juncus mertensianus</i>	Merten's Rush

Luetkea pectinata
Luzula arcuata
Lycopodium alpinum
Phleum alpinum
Picea glauca
Pinus contorta
Salix barrattiana
Salix glauca
Salix polaris
Sanguisorba canadensis
Senecio triangularis
Sibbaldia procumbens
Solidago multiradiata
Trisetum spicatum

Partridgefoot
 Curved Alpine Woodrush
 Alpine Club-moss
 Alpine Timothy
 White Spruce
 Lodgepole Pine
 Barratt's Willow
 Grey-leaved Willow
 Snow-bed Willow
 Canadian Burnet
 Arrow-leaved Groundsel
 Sibbaldia
 Northern Goldenrod
 Spike Trisetum

Dwarf Alpine Fir

Abies lasiocarpa
Luetkea pectinata
Betula glandulosa
Empetrum nigrum
Phyllodoce empetriformis
Rubus pedatus
Vaccinium caespitosum

Alpine Fir
 Partridgefoot
 Shrub Birch
 Crowberry
 Pink Mountain Heather
 Five-leaved Bramble
 Dwarf Bilberry

Alpine Shrub

Abies lasiocarpa
Arctostaphylos alpina
Artemisia norvegica
Betula nana
Calamagrostis canadensis
Carex sp.
Cassiope tetragona
Dryas integrifolia
Empetrum nigrum
Epilobium angustifolium
Festuca altaica
Festuca brachyphylla
Lupinus arcticus
Lycopodium alpinum
Lycopodium selago
Minuartia rubella
Picea glauca
Pinus contorta
Poa alpina
Poa arctica
Trisetum spicatum
Potentilla hyparctica
Salix glauca
Salix polaris
Salix reticulata
Saxifraga sp.
Senecio yukonensis
Silene acaulis
Vaccinium caespitosum
Vaccinium vitis-idaea

Alpine Fir
 Alpine Bearberry
 Mountain Sagewort
 Dwarf Birch
 Blue-joint Reed-grass
 Sedge
 Arctic White Heather
 Smooth-leaved Dryas
 Crowberry
 Fireweed
 Northern Rough Fescue
 Sheep Fescue
 Arctic Lupine
 Alpine Club-moss
 Mountain Club-moss
 Boreal Sandwort
 White Spruce
 Lodgepole Pine
 Alpine Bluegrass
 Arctic Bluegrass
 Spike Trisetum
 Arctic Cinquefoil
 Grey-leaved Willow
 Snow-bed Willow
 Net-veined Willow
 Saxifrage
 Yukon Groundsel
 Moss campion
 Dwarf Bilberry
 Lingonberry

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APPENDIX D
MOOSE AND CARIBOU POST RUT SURVEY RESULTS

November 2009

Wildlife Survey – CMC Metals

December, 2006

Helicopter: Bell 206 C-FG/U

Pilot Doug Hladun

Observers: Paul Inglis, Grant Lortie

Helicopter Time: 10:10-11:07
11:26-12:08

Survey Time: 2 hours

Observation conditions: Good – very good,
broken overcast 7500' ASL
Wind West, 15-20 mph
New light snowfall overnight

Results and Discussion:

No evidence of recent moose activity was found on the CMC block of claims or the adjacent Archer Cathro and Associates claim block. Moose were found in mid to upper reaches of tributary streams flowing into and north of Meister River and one observation in the lower unnamed creek discharge into Northwind Lake, west of the CMC Property (see Figure XXX and Table XXX).

Caribou or their sign were not encountered on this survey.

Evidence (tracks) of furbearers (marten, lynx, fox, and wolverine) were absent, as was sign of prey species such as snowshoe hare and ptarmigan.

Prevailing weather conditions (3-4 inches of snow over night and drifting snow at higher elevations) may have eradicated small animal sign in the area. However, protected areas at lower elevations were devoid of small animal activity as well. Below Northwind Lake, the fresh track of a river otter was observed on the upper Rancheria River.

Waypoint/ species	Mature Female	Calf	Mature Male	Immature Female	Immature Male	Track	Group Size	Notes
001								Edgar Lake
002 M						1 Old		
003 M						1 Old		
004 M	1	1					2	
005 M			1				1	
006 M						1 Old		
007								Camp-Weather Station
008 M						1 Old		
009 M			2				2	
010 M	1	1	1		1	Burn	4	
011 Otter						Fresh		Track on stream ice
Moose	1	2					3	At junction of access road and Alaska Highway

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APPENDIX E
SAMPLE STATION PHOTOS

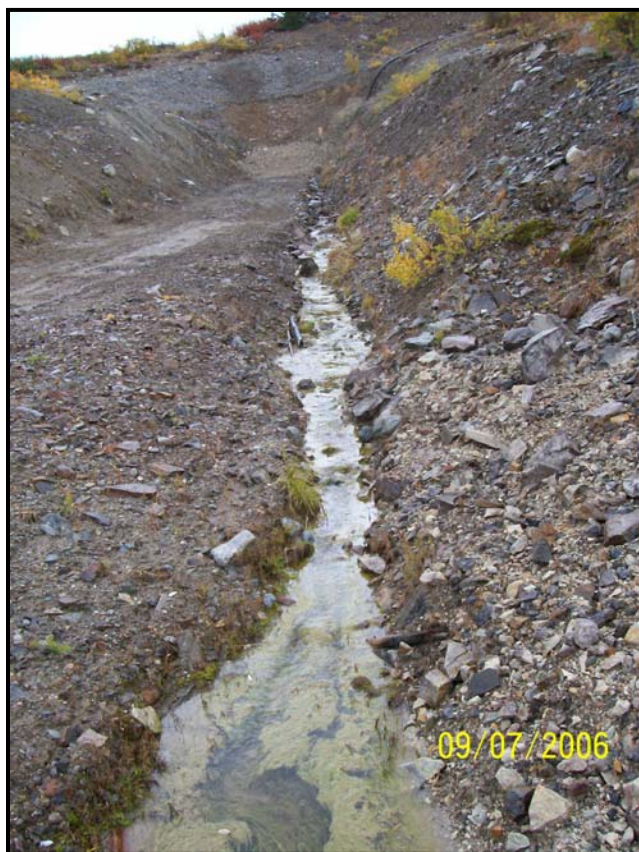
November 2009



CMC-07-Flow metering 2006



CMC-07-upstream towards Edgar Lake 2006



CMC-11- adit flow 2006



CMC-11- adit flow 2008



CMC-11- adit flow pool 2009



CMC-M1- Flow metering 2006



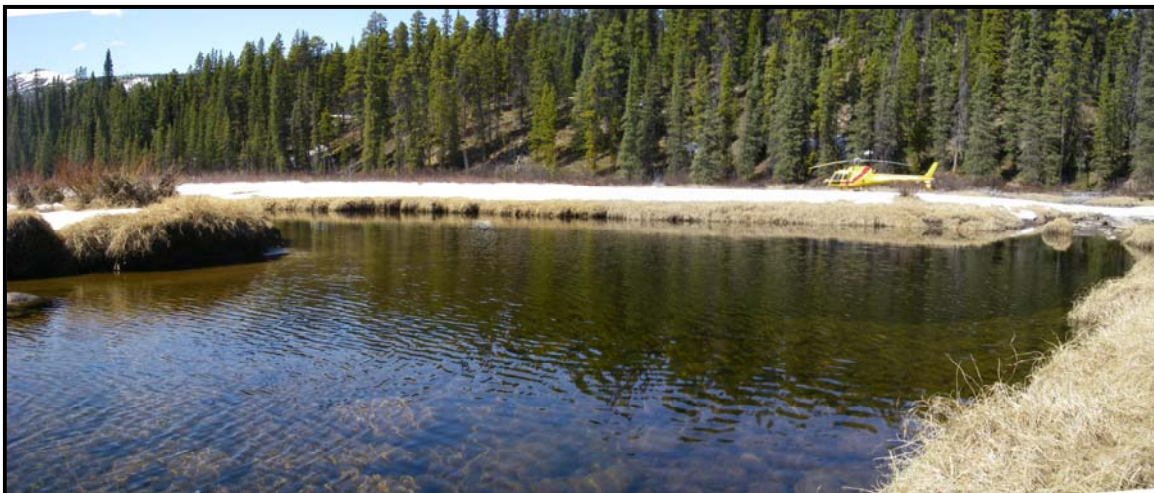
CMC-M1- downstream 2007



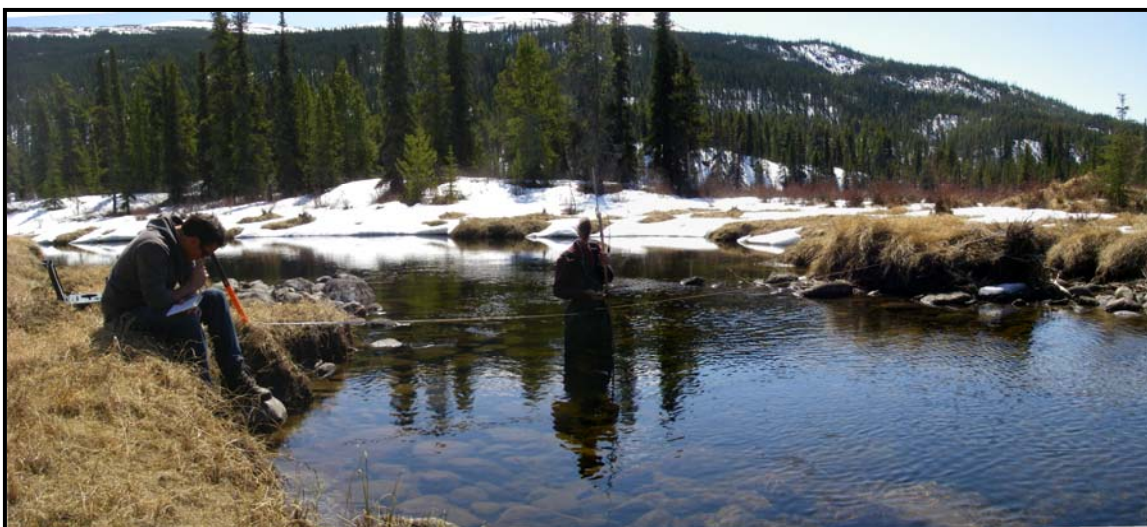
CMC-M2- flow metering 2009



CMC-M2- downstream towards bridge 2007



CMCOC2 – upstream 2009



CMCOC2 – Flow metering 2009



CMCOC2 – Upstream 2006

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APPENDIX F
HERITAGE ASSESSMENT

November 2009

Heritage Sites Inventory and Impact Assessment: Silver Hart Property, Southern Yukon

Final Report
06-13ASR

December 2006

Prepared by

Christian D. Thomas
of
Thomas Heritage Consulting
Whitehorse

For

Access Consulting Group

and

CMC Metals Ltd

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Figure 1: Map of the Yukon

Introduction

The following report documents the results of a heritage resource inventory and impact assessment of proposed development sites at CMC Metal's Silver Hart property. The mine is located in the upper Rancheria and Meister River drainages in the southern Yukon. CMC Metals proposes to reopen existing mine infrastructure at the Silver Hart property including a camp, a mill site, a tailings dump and an open pit mine quarry. The assessment focused on survey for historic era and archaeological sites in the mine's proposed impact zone. Fieldwork was completed during 6 and 7 September 2006. Recommendations regarding the results of the fieldwork can be found in the last section of this report.

Objectives

The objective of this survey was to identify heritage resources such as archaeological and historic sites within the proposed development impact zone of the Silver Hart property. In this instance, heritage resources are defined as historic or archaeological sites and gravesites or objects that have been abandoned for more than 45 years and are protected by the *Yukon Historic Resources Act* and annexed *Archaeological Sites Regulation*. Furthermore, the survey intended to identify First Nation traditional use sites that may be protected by the *Umbrella Final Agreement*. The intended result of this survey is to insure that any heritage resources located on the property are properly managed in light of the proposed development. Recommendations regarding the results of the survey will be presented at the end of this report.

Environmental and Cultural Background

Development Location

The study area is located in the Cassiar Mountains along the middle reaches of the Meister River Valley. The site can be accessed by driving approximately 30 km to the northern end of a small gravel road exiting the Alaska highway at historic mile post 720 and following it north along the Rancheria River to Pine and Daughney lakes and beyond. The mine facilities are centralized in the sub-alpine region of (5000ft asl) a small un-named mountain south of the Meister River and North of the Northwind, Edgar and Roy Lakes. The study area is located at lat/long 60°19'04.54N and 48°48'47.94W (Figure 2).

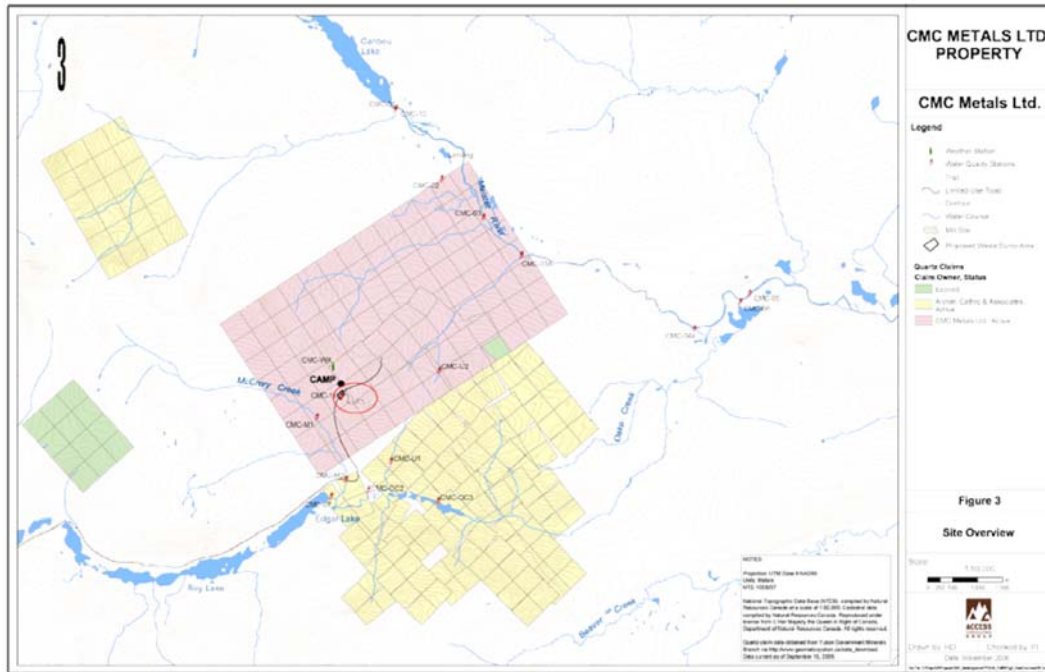


Figure 2: Claim map depicting the location of the Silver Hart property on the Meister River (105B/07). CMC Metal claims are highlighted in pink.



Plate 1: View to north of Silver Hart mine site.

Climate and Environment

The study area is located in the eastern portion of the Pelly Mountains Ecoregion in the northern Cassiar Mountains spanning the British Columbia-Yukon border. The mean annual temperature for the area is approximately -3°C with a summer mean of 10.5°C and a winter mean of -17.5°C . Mean annual precipitation is 500-1000 mm, varying with elevation. Boreal forests of white spruce, black spruce, lodgepole pine and aspen cover

the lower-elevation valley bottoms. Much of the ecoregion lies above the tree line and is characterized by alpine tundra communities of lichens, dwarf ericaceous shrubs, birch, and willows. Grasses, sedges, cotton grass, and some mosses occupy wet sites. Open-growing black and white spruce, and alpine fir are prevalent in the subalpine region. Some aspen and scrub birch occur in valleys and on lower, warmer slopes of the subalpine sections. Lodgepole pine is common following fires. Permafrost is sporadically distributed throughout the area. Representative wildlife includes moose, wolverine, snowshoe hare, black and grizzly bear, Stone's and Dall's sheep, ptarmigan, ground squirrel, and caribou. (Ecoregions Working Group 2003).

Human History

There are four recognized archaeological 'cultures' in the southern Yukon. The oldest of these cultures is known as the Northern Cordilleran tradition and is characterized by sites older than 7,000 to 8,000 years old (Clark 1983; Hare 1995). One site located near Beaver Creek has dated to as early as 10,670 radiocarbon years before the present (Heffner 2002). Site of this age have yet discovered within the greater study region. This archaeological culture is thought to pre-date the introduction microlithic technology from Alaska into the interior of the central and southern Yukon (Clark 1983; Hare 1995).

The Little Arm phase culture dates 7,000 to 5,000 years ago and is heralded by the appearance of microlithic technologies that appear to have diffused into the area from the interior of Alaska to the west (Clark and Gotthardt 1999; Workman 1978). During the Taye Lake phase, after 5,000 years BP, microblade technology becomes sparse if not absent in Yukon, being replaced by a technology characterized by notched projectile points and a diverse variety of scraping and carving tools (Hare 1995; Workman 1978). The latest archaeological culture identified in the southern Yukon is that of the Aishihik phase (Workman 1978). This phase is thought to be a cultural development from the earlier Taye Lake phase culture (ibid.) though there are some differences in technology. The most notable technological advance made during the Aishihik phase was the introduction of the bow and arrow, which replaced a type of throwing spear known as an atlatl (Hare, et al. 2001). All Aishihik phase sites are found stratigraphically above a layer of White River Volcanic Tephra dated to about 1,250 radiocarbon years BP (Clague, et al. 1995).

It is not known to what degree all of the aforementioned archaeological cultures represent developments or advances within a single culture. It can be stated that there are geographical commonalities in the locations of archaeological sites from different eras. A number of archaeological sites have multiple occupations spanning thousands of years suggesting that there is some form of cultural relatedness spanning many millennia of the Holocene. Certainly, the later archaeological cultures such as Taye Lake and Aishihik are the ancestors of modern First Nations people in the area. The indigenous inhabitants of the study area are the Kaska peoples that are now living in the modern communities of Watson Lake, Ross River, Faro, Lower Post, Upper Liard and Dease Lake. Five historic regional groups were identified by Honigsmann (1964). They are as follows:

1. The Upper Liard Kaska were called *Natitu? a'gotena* which can be translated as the “dwellers at a high sharp mountain where a little river starts” (ibid.:19). Their territories encompassed the upper Liard River drainage and Liard Plain, and are bounded by the Cassiar Mountains to the west and the Simpson Range to the east.
2. The Dease River Kaska was called the *Ki'stagotena*, which is translated as “Mountain Dwellers” (ibid.: 19). These people inhabited the Dease River drainage to the head of Dease Lake and the border of Tahltan territory including portions of the cordillera to the east and west.
3. The Nelson Kaska were called *Tse'lona* or “point at which is located at the end of the world” (ibid.: 19) and were known to have occupied areas of the Kechika River and areas of the Liard river to the east of the *Ki'stagotena* people. This group is known to have traded at Fort Nelson, with the Nelson Slavey and Sekani, after it opened in 1800. They later resumed trading within Kaska territory with the opening of such posts as Chee House and Lower Post.
4. The Frances Lake Kaska was called *Tu'tcogotena* translated to mean the “Big water dwellers” (Honigmann 1964: 20). These people traditionally occupied the area surrounding Frances Lake and the Upper Frances River. The outward expanse of their territory also included the upper reaches of the Hyland and Smith rivers. *Tu'tcogotena* were known to also have used the upper Pelly basin (Gotthardt 1987).
5. The *(E)spa'totena*, “Goat Indians” or “Dwellers among the wild goats” (ibid.: 20) lived in the mountain drainages to the north and northeast of the *Tse'lona*. Their territory encompasses the Beaver, South Nahanni as well as portions of the upper Nahanni rivers. Traditionally this group is known to have traded at Fort Halkett, Lower Post and Fort Liard. Gotthardt (1987: 10) has suggested that the *Espa'totena* could be the same as Campbell's *Abba-hou-eta*, or “Knife Indians.” A similar name is rendered as *Abbato-tena* by Dall et al. (1877) for the Kaska who inhabited portions of the upper Pelly and Macmillan rivers. If so, the *Espa'tptena* territory could be expanded to include regions of the upper Pelly River. When George Dawson passed through the area in the late 1800s he mentioned that the inhabitants of the Fort Halkett area called the Upper Pelly people the *Ta-koos-ooti-na* and the lower Pelly people called them the *Na-ai*. Dawson did not meet any inhabitants of the area and was unable to confirm the actual name by which the upper Pelly people described themselves. This group may be related to the “Pelly River Indians,” described by Poole Field (MacNeish 1957), who were involved in a war with a group of “Mountain Indians” in the 1880s.

Summaries of Kaska land use patterns tend to suggest that local populations were composed of small highly mobile groups of people that travelled on seasonal cycles and tended to use fish lakes as central habitation/meeting places. Their principal economic activities tended to revolve around hunting, fishing and trapping activities that varied in importance depending on the season. Honigmann (1964) has described the Kaska annual cycle: hunting took place during all seasons though it was most intense during the late summer when game animals such as moose, caribou or sheep “had fattened” (Honigmann

1964: 31). Much summer hunting occurred in the high alpine where herd animals such as caribou went to pasture. In the winter, game animals tended to migrate and diffuse throughout the forested lowland valleys. Trapping was an important winter activity though it is stated that most Kaska peoples would congregate around the important fishing lakes where a steady supply of fresh fish was harvested in order to supplement the winter meat caches. Beaver ponds were utilized through out the year though it is thought that they were an important winter resource (the lodges were easier to access over the frozen ice), and thus, such locals were the focus of winter trapping and hunting. River fishing was common: arctic grayling would be harvested while running up the smaller streams after spring break-up, while whitefish could be trapped while spawning during the fall. Salmon would run in the Pelly River during the fall and was generally the focus of the year's most important fishing event.

It is likely that the North American Fur Trade first began to influence the Kaska by the 1700s when Russian traders began active trading on the Northwest Coast; demand for new fur sources may well have reached far into the interior at this time. By 1821 the Hudson's Bay Company and the Northwest Company merged and had begun actively exploring and trading in the interior northwest. Euro-Canadian Traders first contacted the Kaska of Upper Liard River during the early 1800s. Before this time the trade of exotic goods, especially those of coastal or European origin, was very much controlled by Tahltan of the Stikine River who served as middlemen to the Tlingit trade (Wilson 1970). Direct contact was likely first established in the years from 1800 to 1820 during Kaska trade expeditions to Fort Simpson, Fort Liard or Fort Nelson (Honigmann 1949). The first trade post opened in Kaska Territory was Fort Halkett, at the mouth of the Smith River, in 1821. In 1838 a second post, Dease Lake Post, was opened but was quickly abandoned (1839) due to trade related hostilities from the Tahltan/Tlingit people to the south. Fort Halkett remained open until 1865 when low trade profits resulting from intense competition led Hudson's Bay Company managers to discontinue the operation. Subsequently, the Kaska people of the Liard drainage either traded indirectly with the coast or directly with HBC posts to the east (Fort Nelson, Fort Liard, Fort Simpson, Toad River Post etc.) Throughout the late 1840s and 1850s the HBC maintained several trade outposts throughout the Kaska territory but, for logistical reasons, many were abandoned later in the century.

It was not until around the turn of the twentieth century that direct trade was re-established in the area when free traders began moving back into the region. At this time fur prices were rising because the economic depression in Europe had recently ended (due in part to the discovery of rich gold deposits in the Yukon, Alaska and South Africa) (McCandless 1985). This led to the establishment of numerous small communities throughout the southeastern Yukon that who's economic prosperity relied largely on the fur trade. In the years 1919 and 1920 the price of furs had tripled and the international demand for Yukon furs was at its peak (McCandless 1985). Fur prices remained high throughout the 20s, 30s and early 40s but by the end of the Second World War the bottom had fallen out of the fur market. The major market furriers of Western Europe (particularly those in London) had sustained major wartime damage; the European post-

war economy focused much of its financial resources on rebuilding and not on consumer goods. In the southern United States furriers were using more farmed furs for the production of consumer goods. As a consequence, the demand for Yukon wild furs was greatly reduced.

By 1952, the depression of the fur market caused many in the Kaska population began relocating to the new Yukon population centres at Ross River and Watson Lake (Coates 1991). Since this time mining and highway projects have been the primary economic activity in the upper Liard drainage. However, the Kaska people continue to pursue their traditional subsistence activities throughout the southeast Yukon.

Methods

The main project methodology involved completing a historic and archaeological sites inventory in and adjacent to areas that were to be developed by CMC Metals. The location of development sites were documented through discussions of the CMC staff geologists present at the site during the fieldwork. The development area was stated to be confined to the subalpine region of the small mountain on the south side of the Meister River (Figure 3) and mine infrastructure would not be built adjacent to either the Rancheria or Meister River valley bottoms (areas considered to have moderate to high potential). Thus, the development site could be generally described as having low potential for the presence of heritage values. Regardless, the north side of the mountain does contain several small creeks draining into the Meister River that could be considered to have moderately elevated potential for the presence of archaeological sites because they could conceivably have been used as travel routes to hunting areas and some topographic features in the area provide excellent look outs of the surrounding territories.

The inventory was completed by walking transects and excavating test pits in areas that were considered to have moderate to high potential for the presence of historic or archaeological remains. In areas that were shovel tested for archaeological remains the consultant excavated tests on a 15 to 20 m grid throughout the area considered to have elevated potential. Because of the location of the proposed mine facilities, that being sub-alpine, soils in the study area proved to be no more 20 to 30 cm deep before hitting solid bedrock or weathered parent materials. All test units were 40 by 40 cm wide.

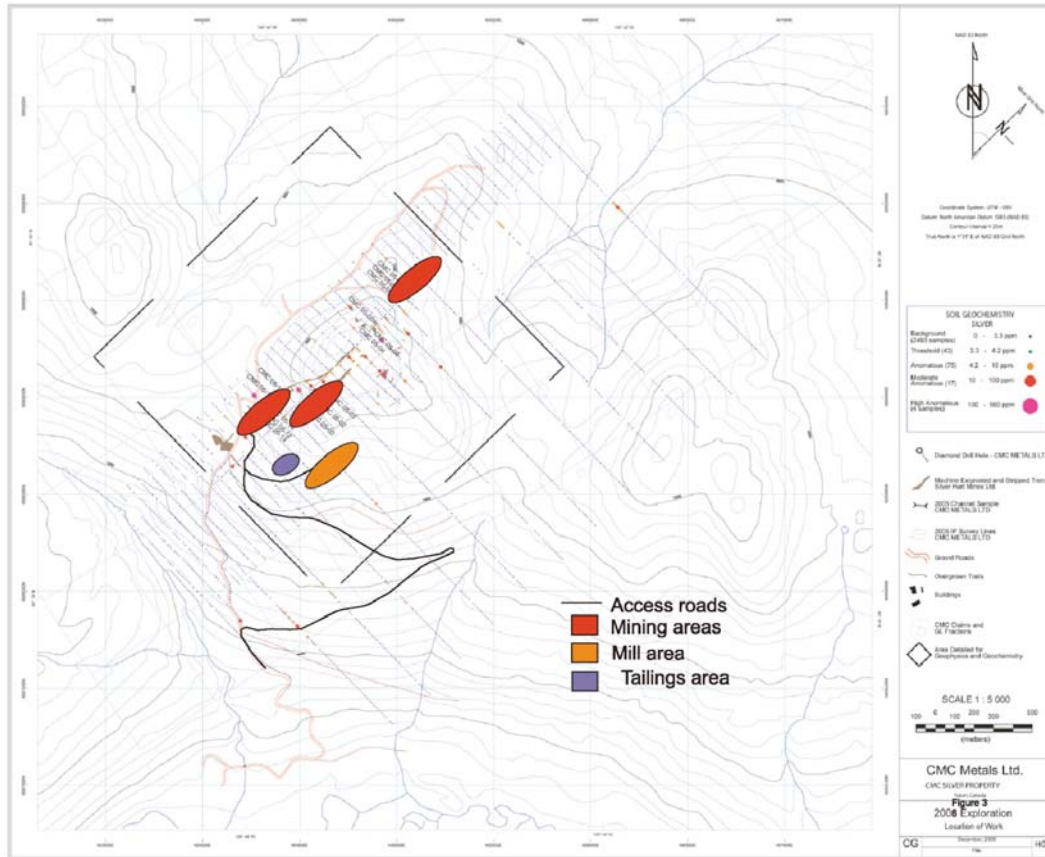


Figure 3: Development locations within the Silver Hart property.

Results

Archaeological Inventory

During the inventory of the Silver Hart development area the consultant identified three specific areas (Figure 4; Table 1) that were considered to have moderately to elevated potential for the presence of archaeological remains. The first is area checked was a north draining creek valley on the south side of the mountaintop. The valley drains into the Meister River and is bordered by a series of ridges on both the west and east sides of the creek. Test sites were identified at five different locations that in the drainage roughly within one kilometre of the mine site. A total of 123 test units were excavated in shallow soils. Testing at these locations did not result in the location of heritage sites.

The second location tested was a high hill located in the centre of the property that possessed both a view of the Meister River and the Northwind Lakes. The hilltop had very little soil deposition therefore the majority of the inventory was completed by visually scanning gravel exposures. A total of 30 test units were excavated in addition to the aforementioned. No heritage sites were identified.

The final test site was a small hill on the south face of the mountain that overlooked a small wetland stream to the east and the Meister River Valley to the north. Testing of the location consisted of the excavation of 12 shovel tests and visual scanning for artifacts. No heritage resources were discovered. The remainder of the development area can be described as having extremely low potential for the presence of heritage sites or has been severely impacted by past development thus negating the possibility of heritage site survival.

Test site	Location (UTM NAD 83)	Site Description	Shovel Tests	Result
CMC 1	E0404236 N6690068 E0404375 N6689501	North draining valley leading to Meister River. Portions of the valley ridge overlooking the stream tested for 1km to north of development impact zone. Moderate soil development tests excavated 20-30cmBS.	123 at 5 specific localities	Nil
CMC 2	E0404144 N6689277	Prominent hill top overlooking both Meister River and Northwind Lakes and Mine Camp. Minimal soil deposition. Site inventory was largely visual. Some test units excavated 5-10 cmBS.	30 plus visual survey	Nil
CMC 3	E0405642 N6690069	Prominent hill on north side of the mountain with view of Meister River valley and a creek wetland to the east. Minimal soil deposition at the site. Some test units excavated 5-10 cmBS.	12 plus visual survey	nil

Table 1: Table describing locations of test sites surveyed at the Silver hart property.

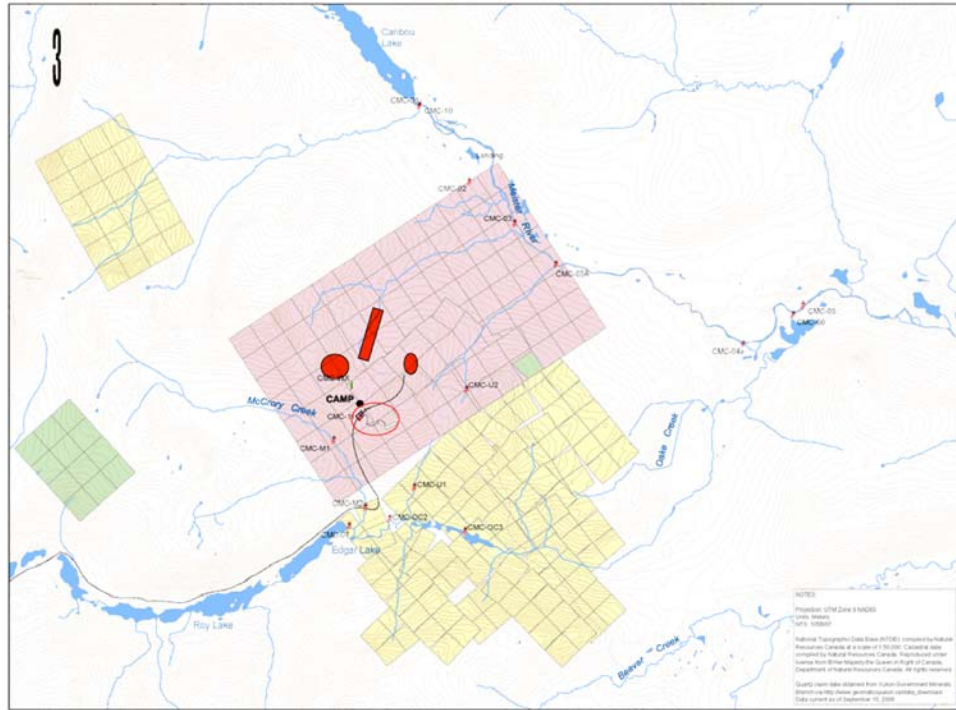


Figure 4: Map of the Silver Hart claim area depicting test sites. Areas tested are highlighted in red.

Recommendations and Conclusion

During the course of the present field survey we were unable to identify any historic or archaeological sites within the proposed development impact zone. Three broad localities were inventoried for heritage sites resulting in the discovery of no archaeological or historic remains. The consultant believes this can be attributed to the subalpine location of the development area rather than none use of the area by past populations. Due to the areas close proximity to significant lakes and water drainages it is more than likely that the development area was, in the past, used as a hunting site or a travel location. The area was likely also used as a key trapping area throughout the early half of the 20th century. However, significant sites related to past usages are more likely located in the valley bottoms around the Northwind Lakes (to the south) or Caribou Lake (to the north) than in the alpine and subalpine reaches of the Cassiar Mountains. CMC Metals has not presented any plans to develop locations in the Meister Valley (including tributaries thereof) and will therefore not be impacting locations considered to have high potential for the presence of heritage sites.

It should be noted the mine access road does closely follow the Rancheria River as well as some upper tributaries of the Meister River. The road does pass several areas that are considered to have moderate to high potential for the presence of heritage sites. As such, the consultant will recommend that a heritage sites inventory of the mine access road be completed if the following actions are to occur:

1. If the any section of the mine access road in the Rancheria or Meister River Valley bottoms are to be realigned.
2. If the road is to be upgraded significantly requiring the development of new gravel borrow sources within the aforementioned valley bottoms.

Furthermore, consultant will recommend that further assessment work would be required if the mine development plan is altered resulting in the construction of new mine facilities and access roads within 100 m of the Meister River at any location on the north end of the Silver Hart property. In regards to the proposed mine site itself, the consultant recommends that no further heritage sites inventory or assessment is required in advance of the development of the mine. No further recommendations or results are forthcoming.

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APPENDIX G KLOHN LEONOFF GEOTECHNICAL STUDY (Hydrology Description)

November 2009

6.3 WATER BALANCE

6.3.1 Hydrology

A preliminary review of the available hydrologic data was made to determine the annual water balance and design flood flows for the tailing ponds. The available data included the following:

- Streamflow stations in British Columbia. The most applicable would be Cottonwood River above Bass Creek, Station No. 10AC05, drainage area 880 km² and 20 years of data.
- Snow pack data. The most applicable would be Cassiar, British Columbia, (Station No. 4C04) at elevation 1390 m with 21 years of data.
- Watson Lake Airport has a first-class AES meteorological station. The Principal Station Data book was obtained.
- Intensity/Duration/Frequency data was obtained by phone from AES in Edmonton for Watson Lake. Rainfall intensity values were obtained for 10 and 15 minute durations for return periods of two, five, 10, 25, 50 and 100 years. These were extrapolated to 200 years.

Due to the preliminary nature of this study and the lack of site data, the rational method was used to obtain a 200-year precipitation value. The times of concentration obtained for Pond Nos. 1 and Pond 2 were 13 minutes and 11 minutes, respectively. Therefore an intensity of 45 mm/hr (1.77 inches/hr) corresponding to a duration of 10 minutes and a return period of 200 years was used. Using a drainage area of 172 acres and 133 acres, for Pond Nos. 1 and 2, respectively and a coefficient of 0.5 for both ponds, a resulting peak rainfall inflow of 152 cfs and 118 cfs was obtained. Snowmelt during rainfall of 1.6 inches/day was assumed to contribute to the peak inflow.

Data from Watson Lake has been used directly with no adjustment for this preliminary estimate. For detailed design, adjustments should be made to the data and perhaps a more detailed approach to estimating the 200-year inflow value. Wind data should be reviewed to see if it may be an important factor in freeboard.

6.3.2 Water Losses and Reclaim Water

The tailings will be transported to the pond as a slurry with an estimated 32% solids by weight. This would require a water flow rate of 7 L/s. Of the 7 L/s, about 15% water will be lost to the tailings or 1 L/s.

Seepage losses will occur through the sand and gravel foundations. The seepage losses will be reduced as tailings are spigotted around the pond perimeter forming a more impervious barrier. The spigotted tailings is estimated to have a permeability of less than 10^{-5} cm/s which would result in potential seepage losses of up to 1 L/s.

Precipitation has been estimated from the Hydrologic Atlas of Canada to be approximately 500 mm annually. Annual evaporation is estimated to be , 300 mm. The resultant water gain for Pond No. 1 will be 200 mm annually or .2 L/s.

We recommend that an interceptor ditch be placed around the north side of the proposed tailings pond to catch and remove excess water from snow melt or from precipitation falling outside the pond. We recommend that a ditch 1 m deep and 2 m wide at the base with 2H:1V side slopes be used for preliminary design.

The water available for reclaim in the tailings pond, given the quantities calculated in the previous sections, is summarized below:

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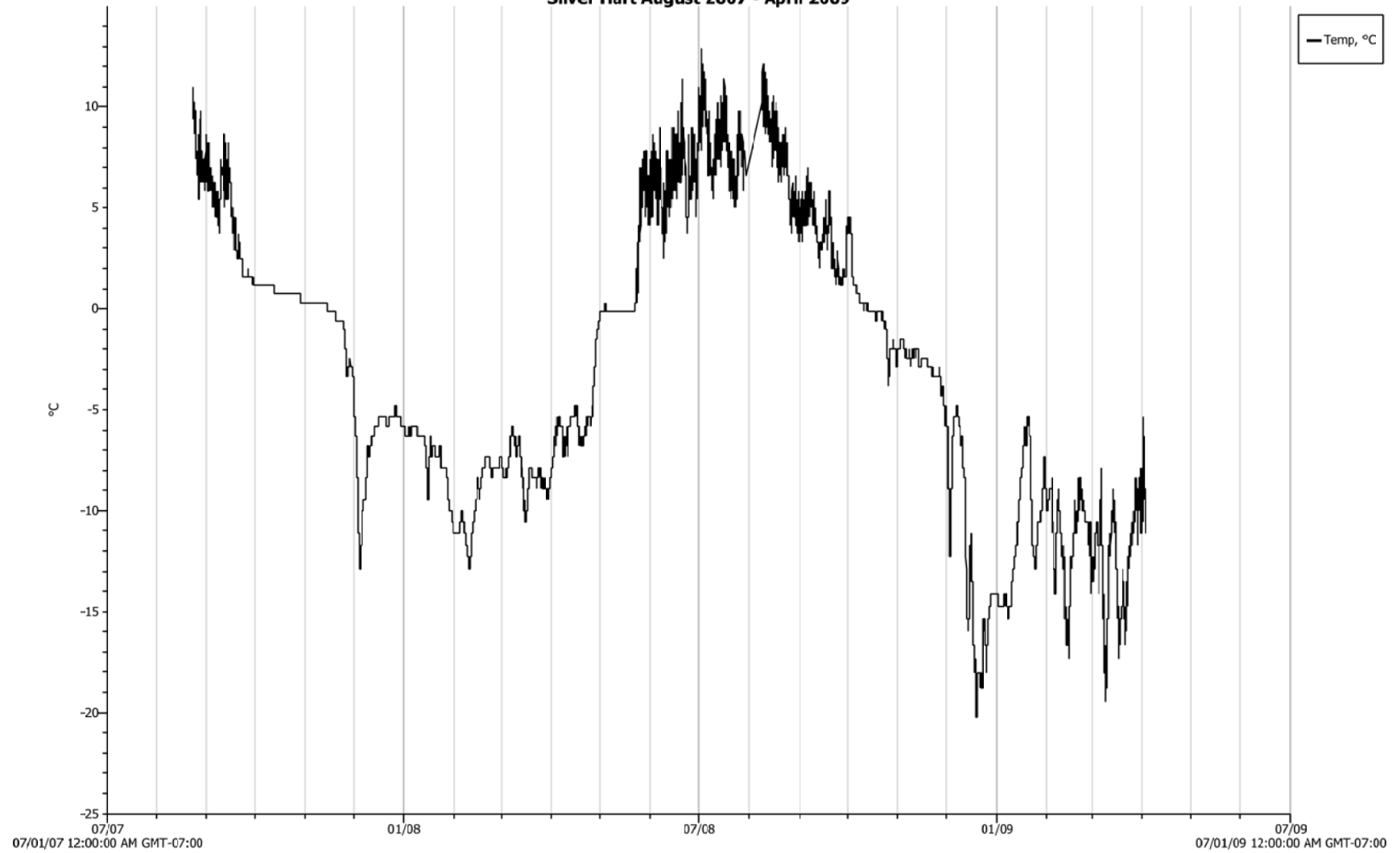
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APPENDIX H
SILVER HART WEATHER STATION DATA SUMMARY

November 2009

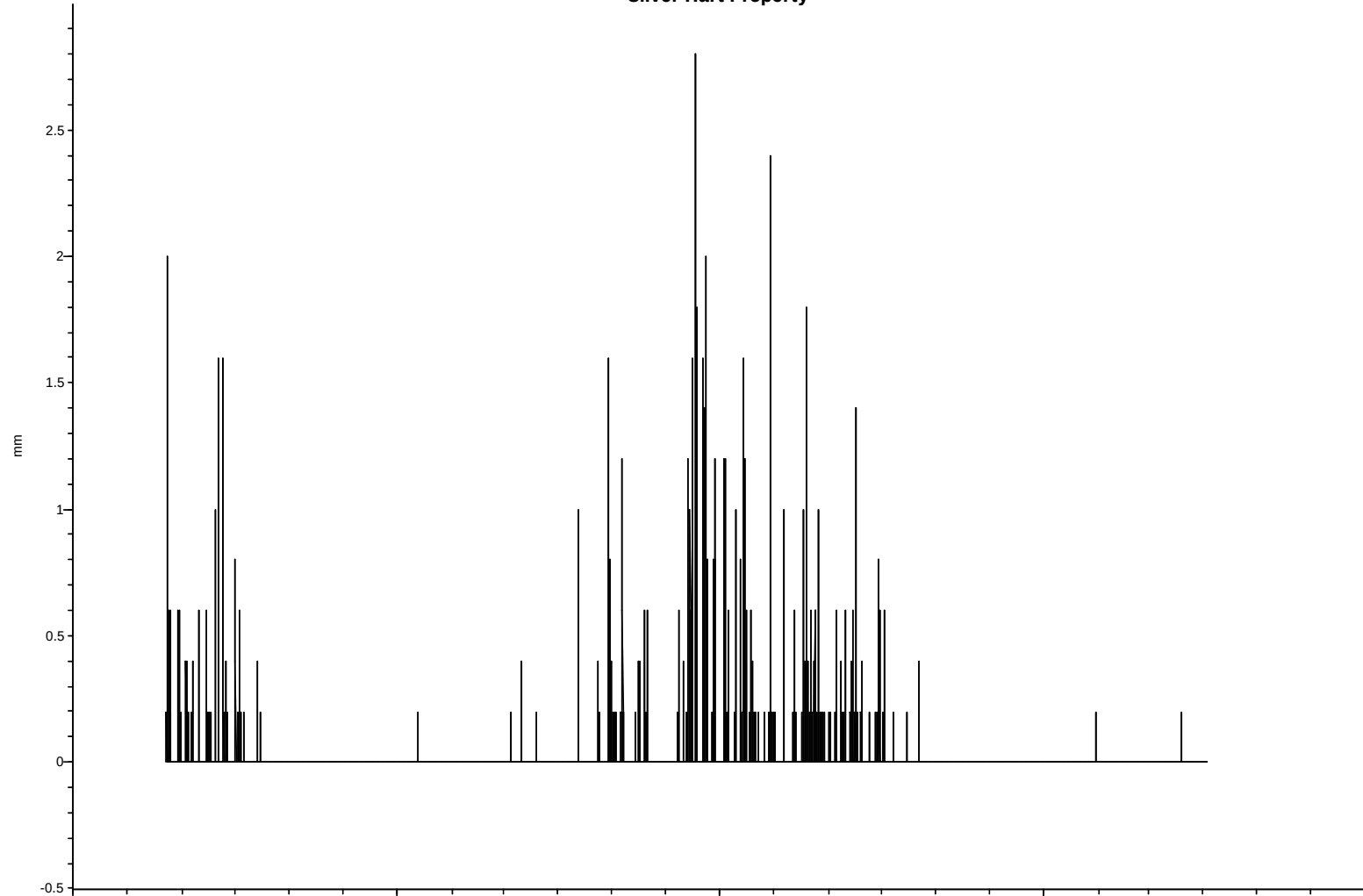
Silver Hart August 2007 - April 2009

Temp, °C

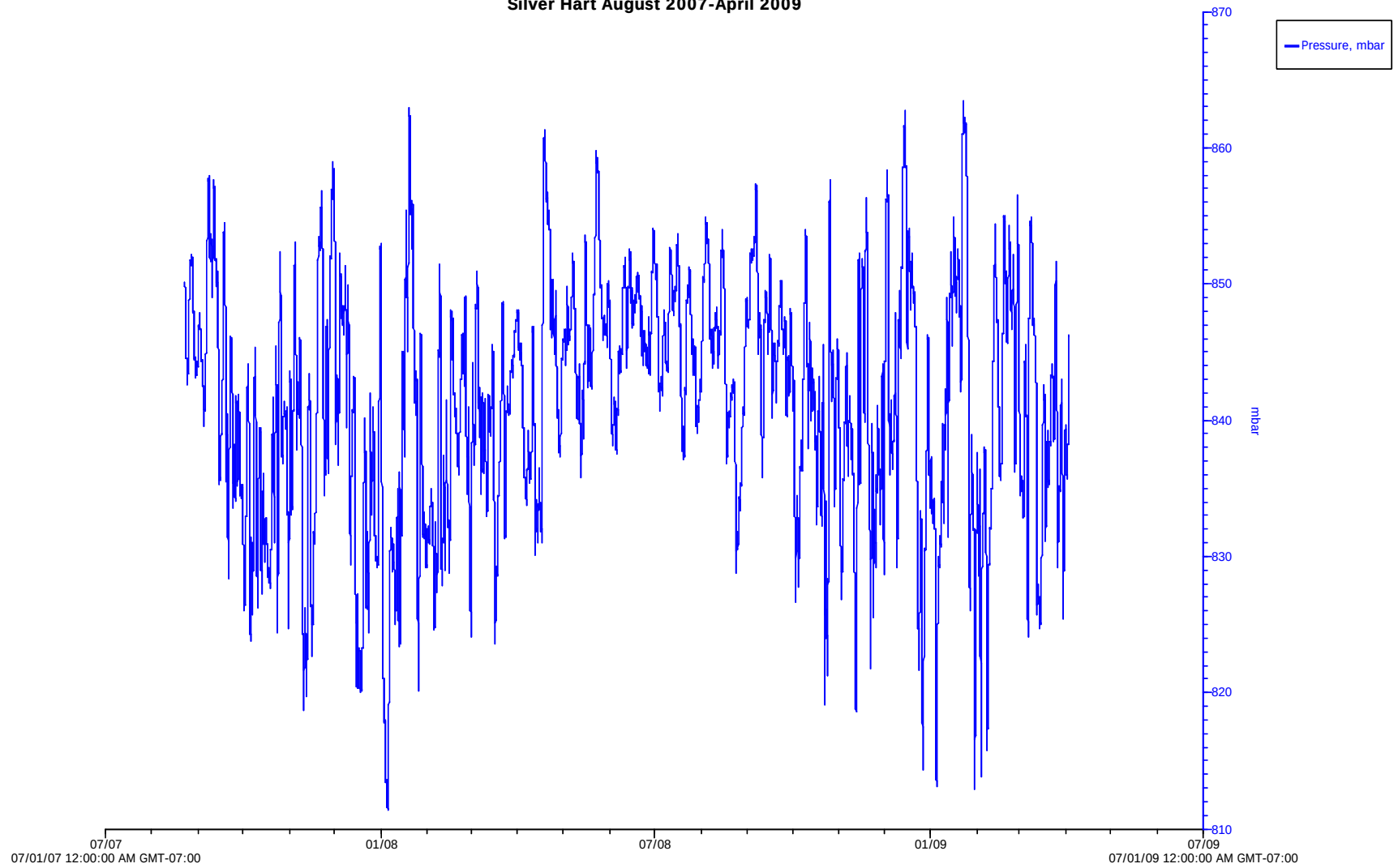


Silver Hart Property

— Rain, mm

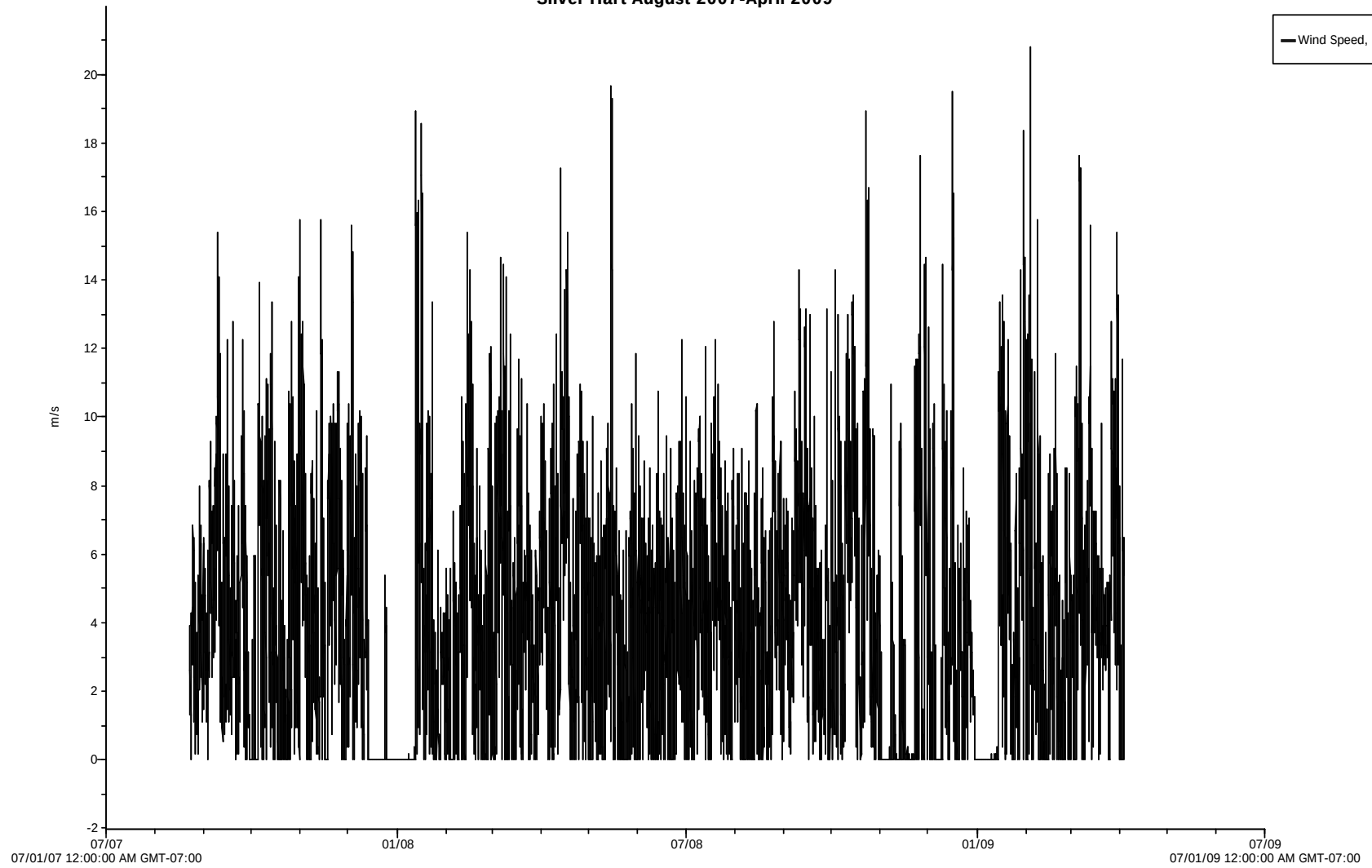


Silver Hart August 2007-April 2009



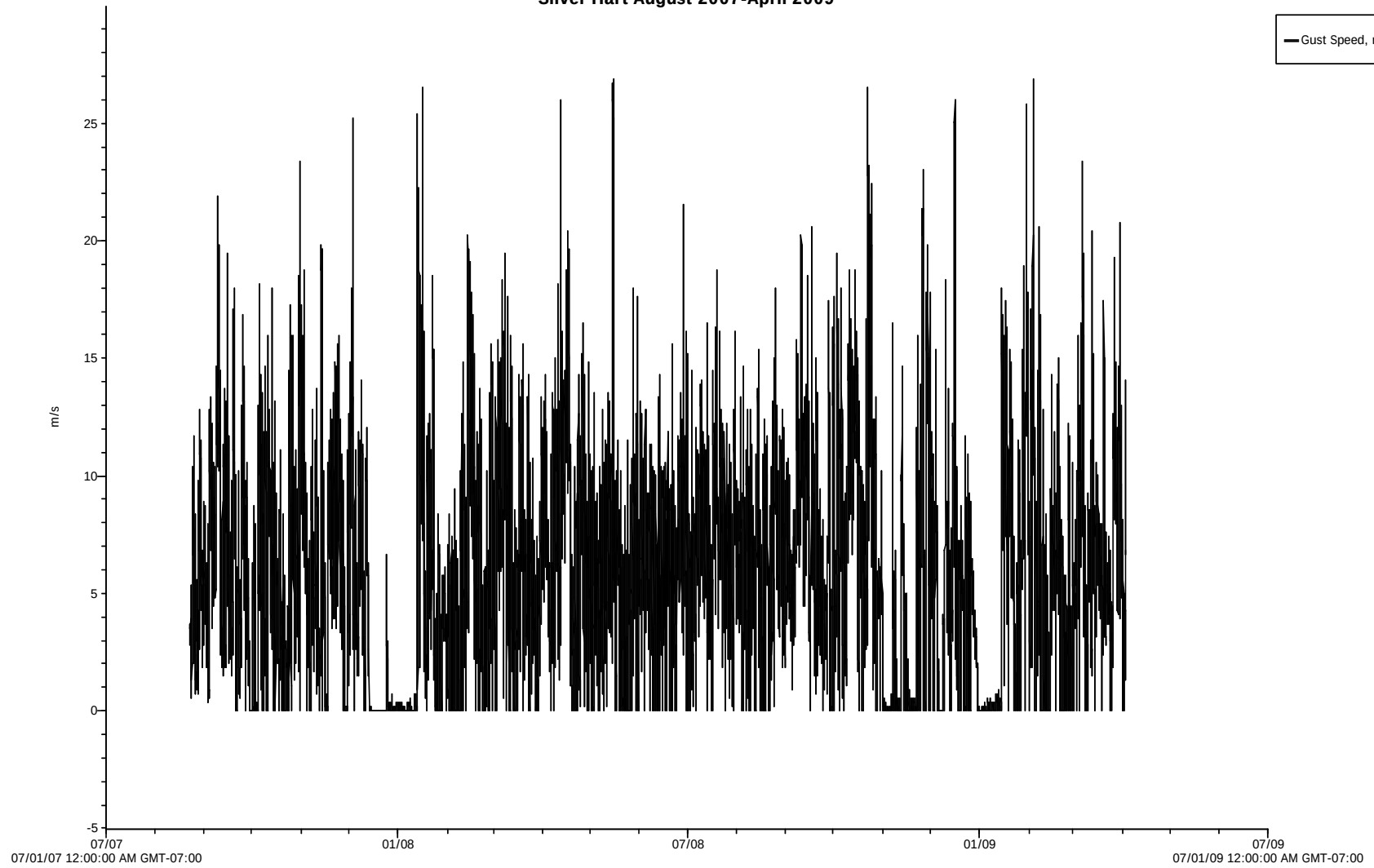
Silver Hart August 2007-April 2009

— Wind Speed, m/s



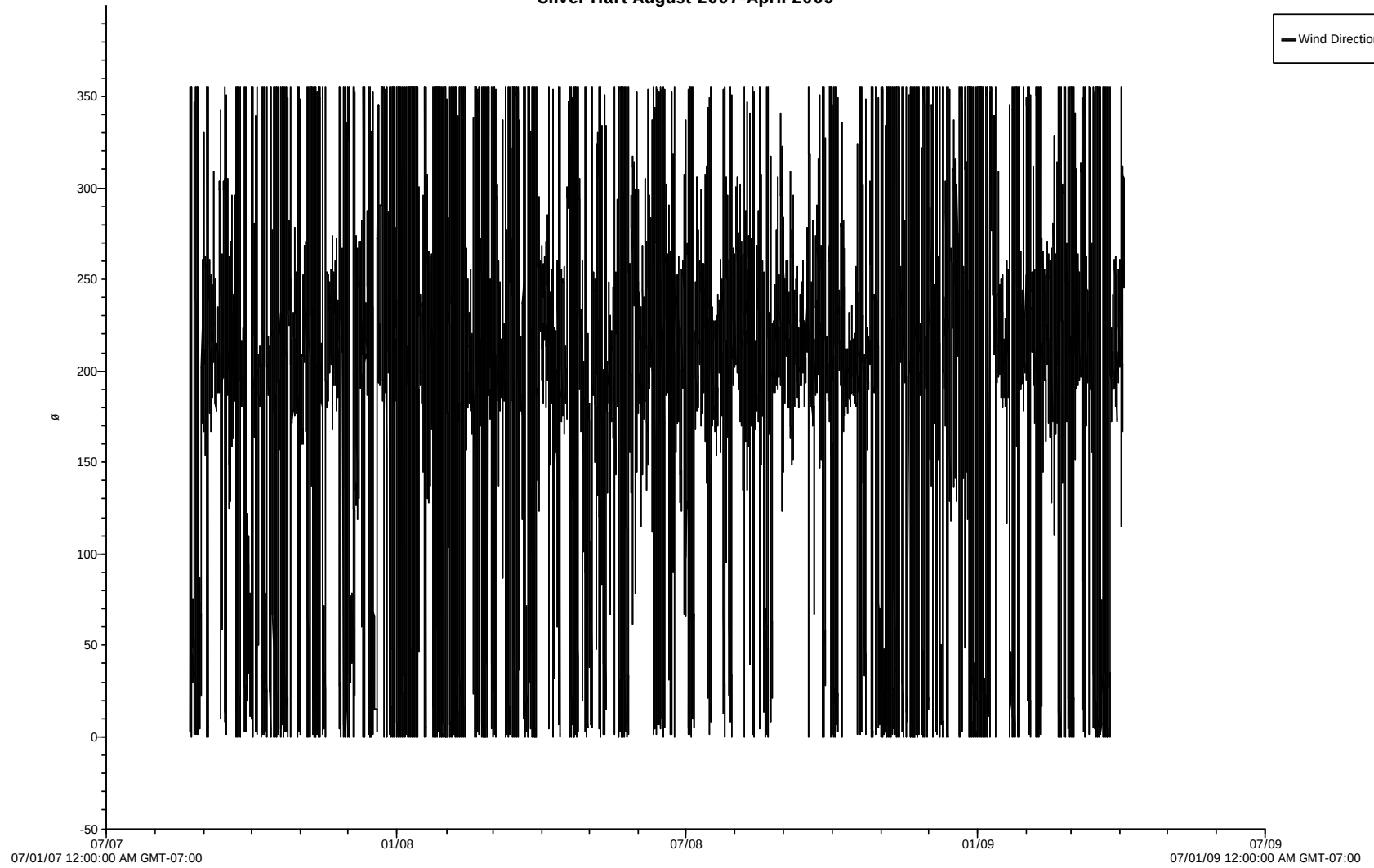
Silver Hart August 2007-April 2009

— Gust Speed, m/s



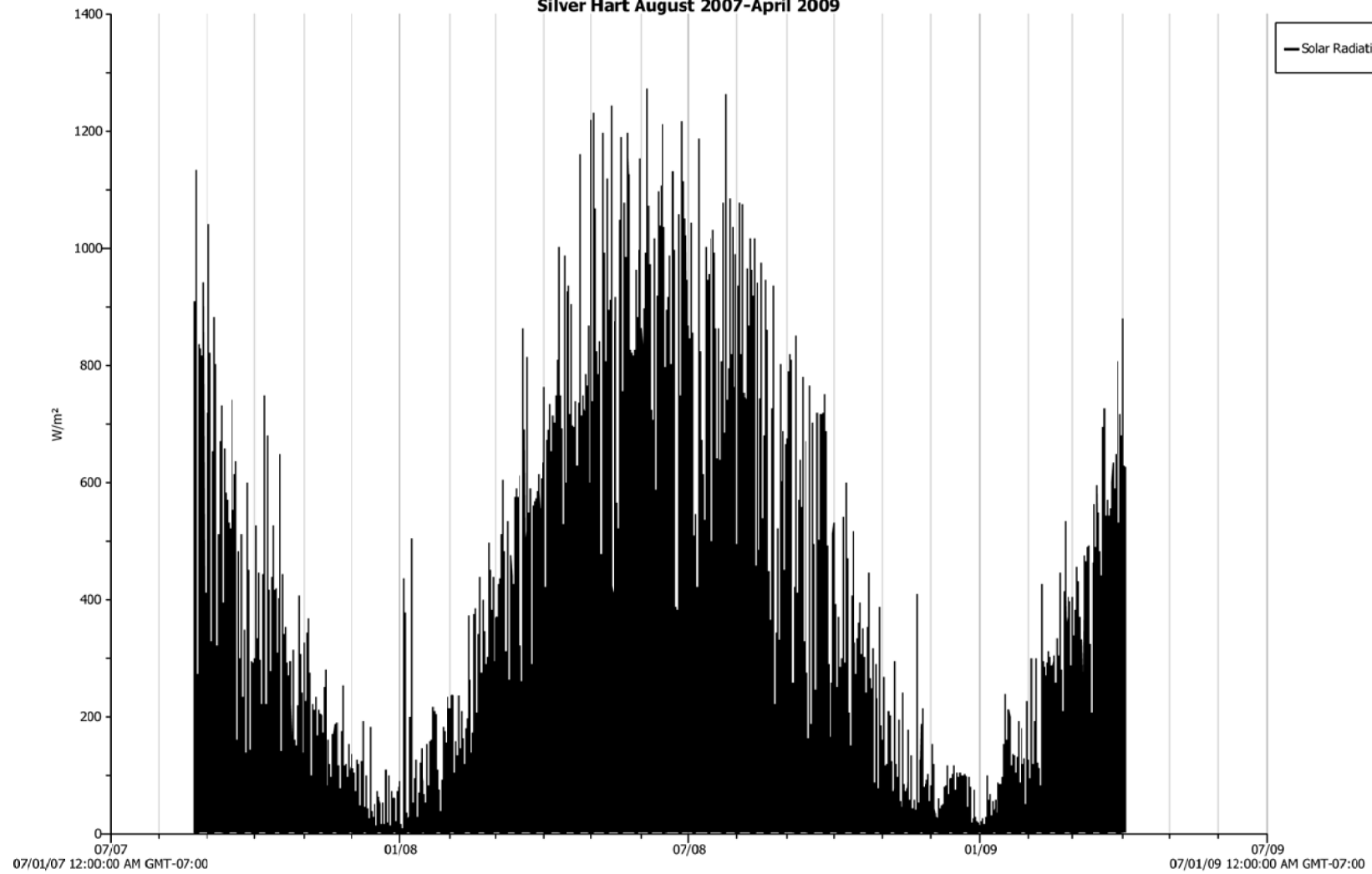
Silver Hart August 2007-April 2009

— Wind Direction, θ



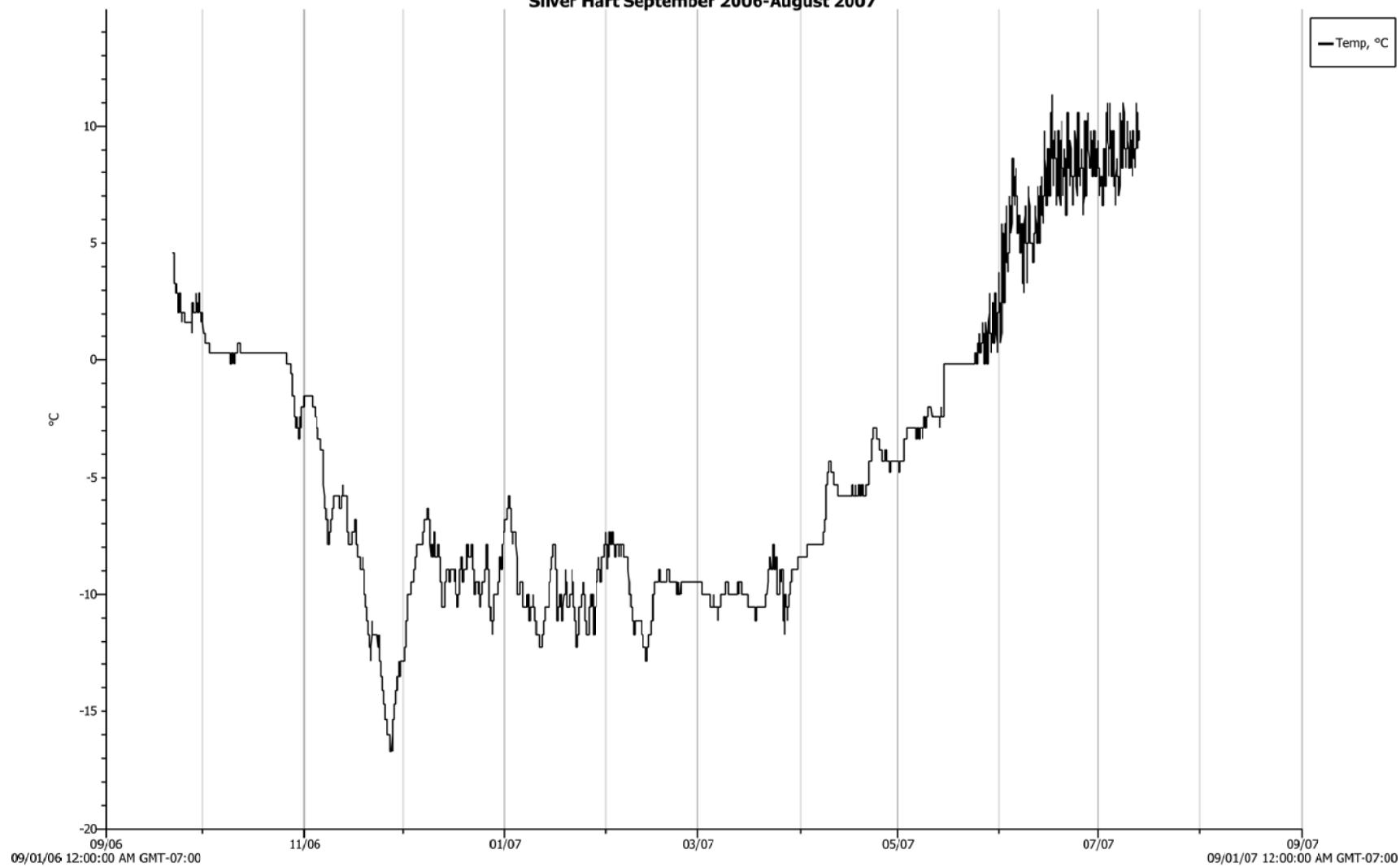
Silver Hart August 2007-April 2009

— Solar Radiation, W/m²

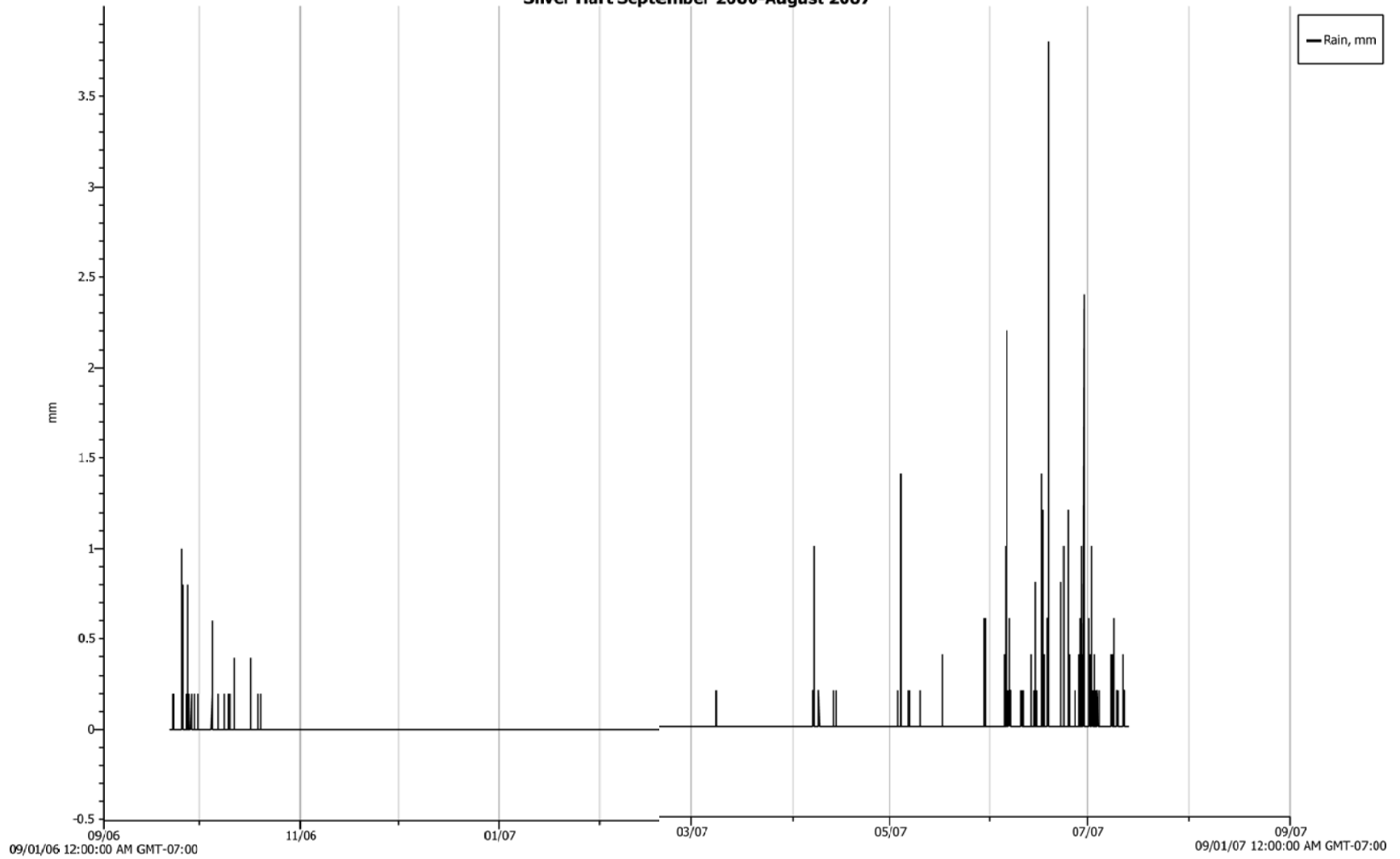


Silver Hart September 2006-August 2007

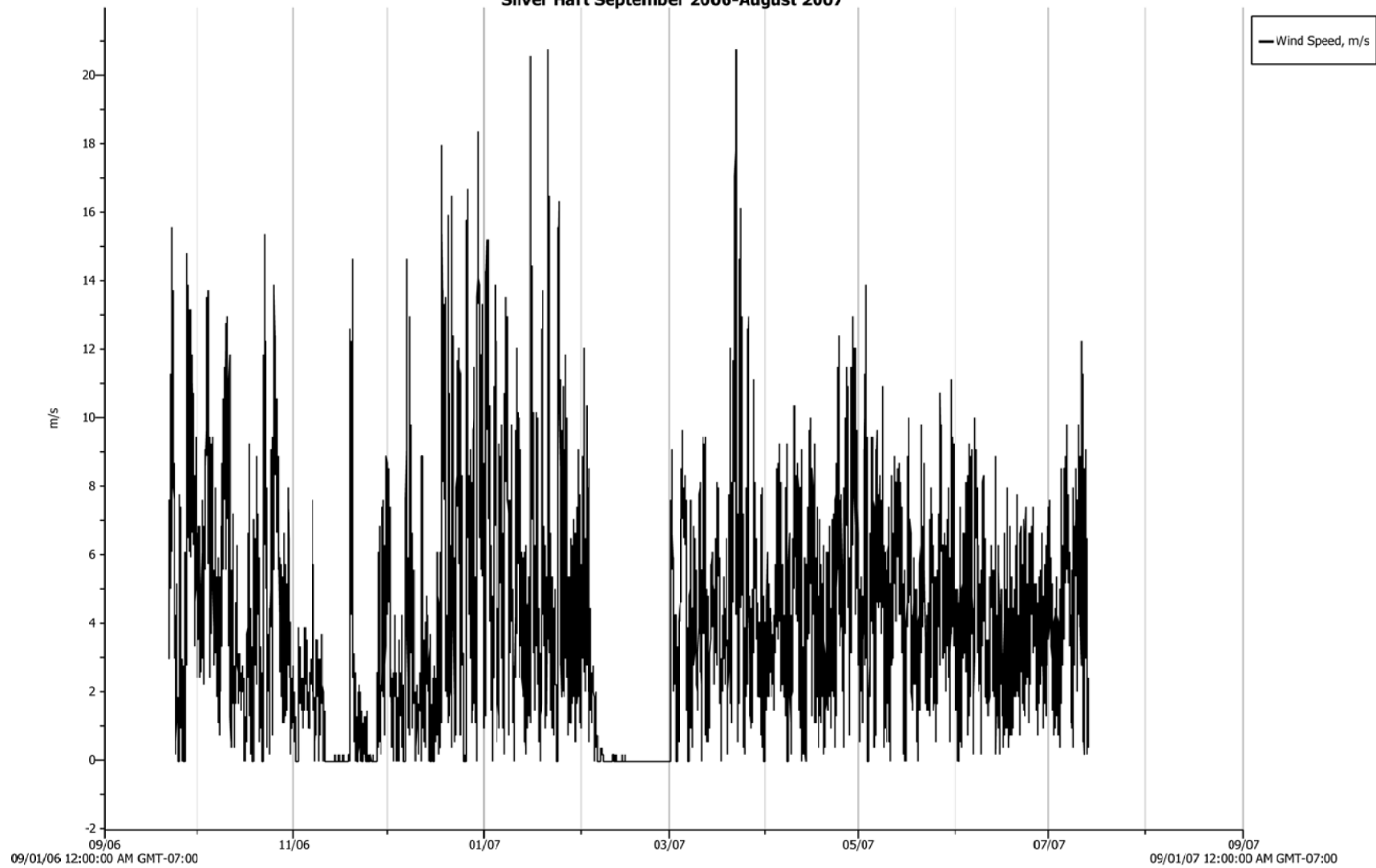
Temp, °C

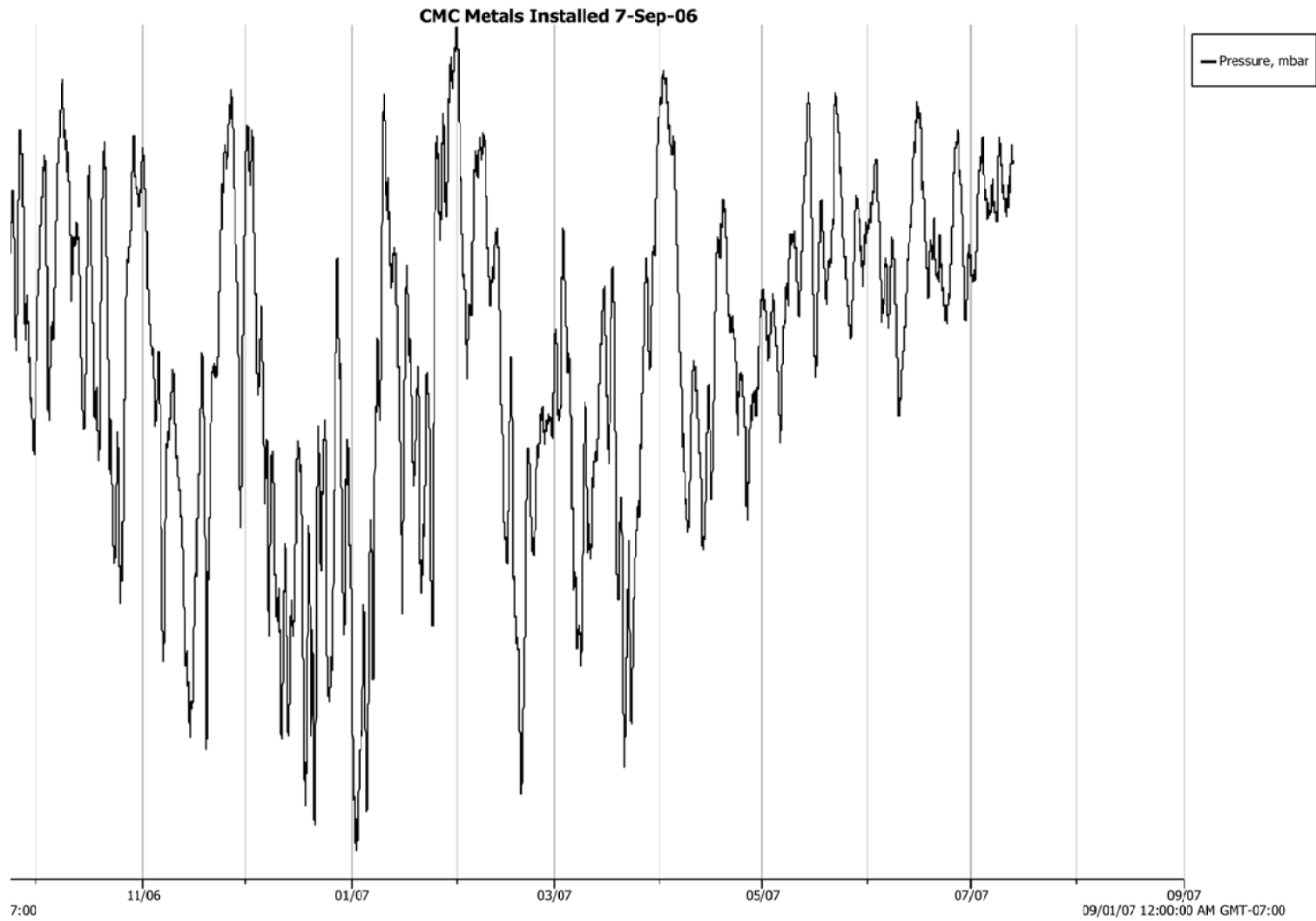


Silver Hart September 2006-August 2007



Silver Hart September 2006-August 2007



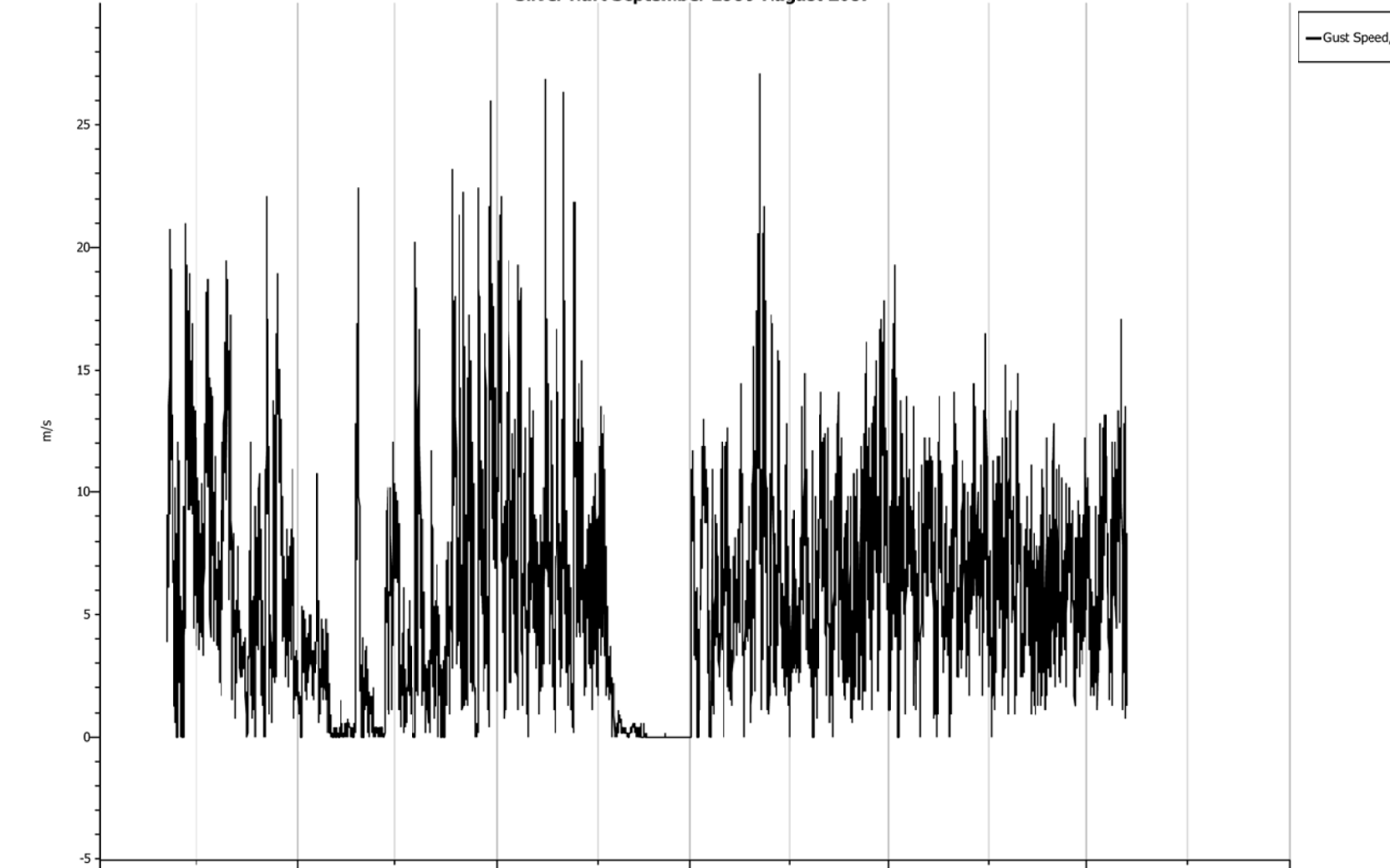


Silver Hart September 2006-August 2007

Gust Speed, m/s

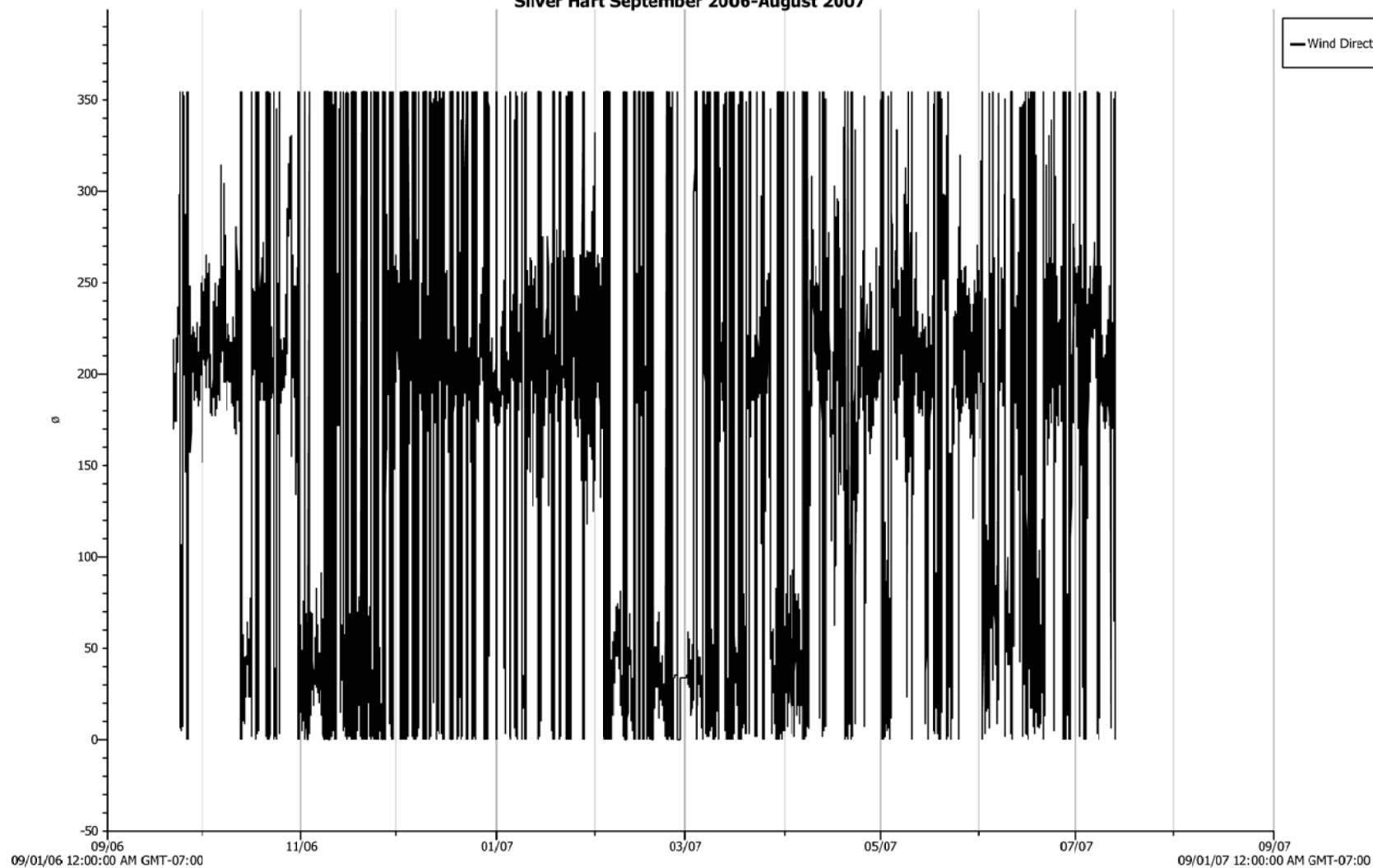
m/s

09/01/06 12:00:00 AM GMT-07:00 11/06 01/07 03/07 05/07 07/07 09/07 09/01/07 12:00:00 AM GMT-07:00



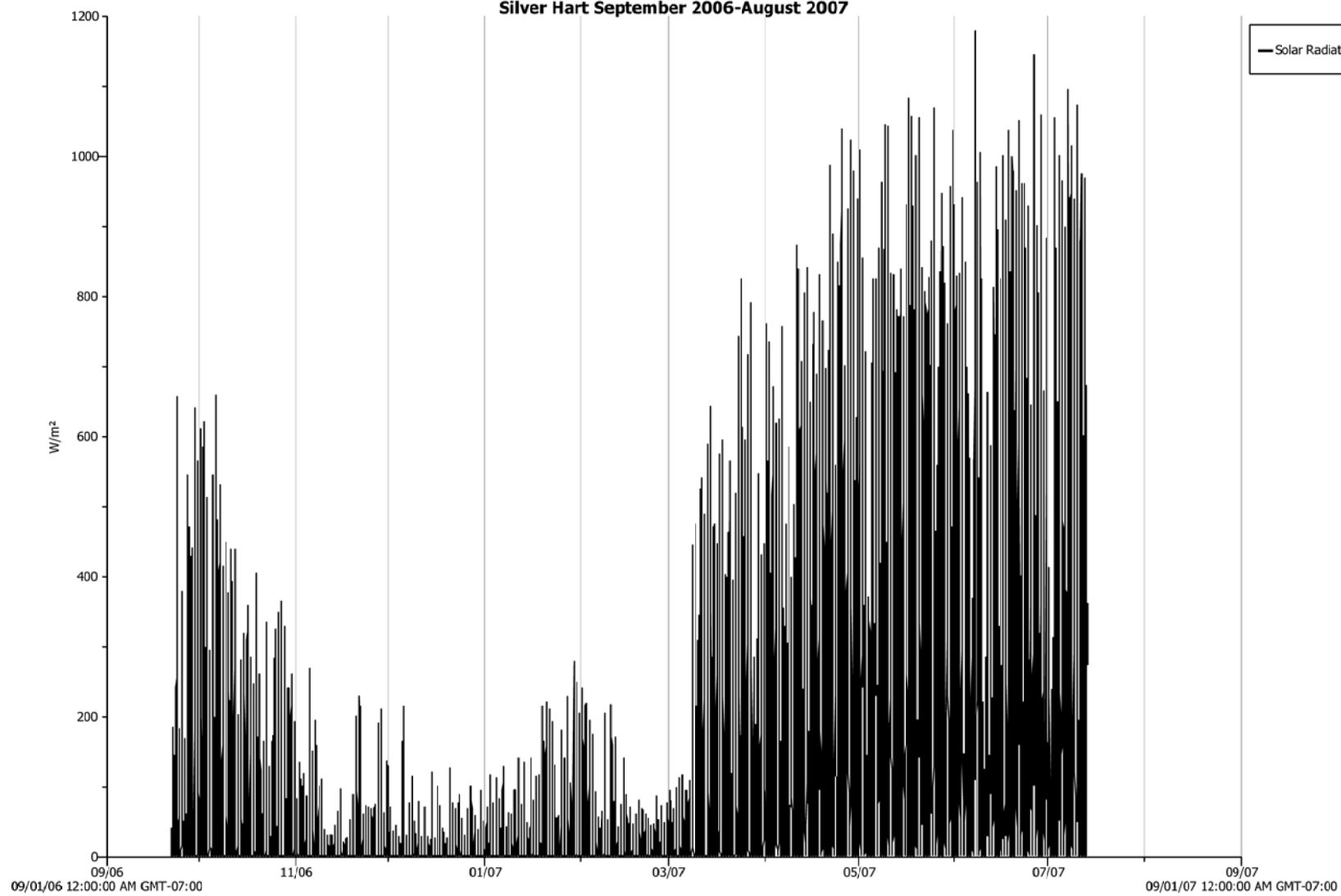
Silver Hart September 2006-August 2007

— Wind Direction, ϕ



Silver Hart September 2006-August 2007

— Solar Radiation, W/m²



Summary Statistics (2006-09 to 2007-08)

Rain, mm

Series Statistics

- Samples: 1,360
- Max: 0.40
- Min: 0.00
- Avg: 0.00
- Std Dev (σ): 0.03

Temp, °C

Series Statistics

- Samples: 1,360
- Max: 7.43
- Min: 1.17
- Avg: 3.53
- Std Dev (σ): 1.68

Pressure, mbar

Series Statistics

- Samples: 1,360
- Max: 861.150
- Min: 837.050
- Avg: 847.451
- Std Dev (σ): 6.093

Wind Speed, m/s

Series Statistics

- Samples: 1,360
- Max: 12.06
- Min: 0.00
- Avg: 3.79
- Std Dev (σ): 2.14

Gust Speed, m/s

Series Statistics

- Samples: 1,360
- Max: 15.59
- Min: 0.37
- Avg: 5.72
- Std Dev (σ): 3.07

Wind Direction, °

Series Statistics

- Samples: 1,360
- Max: 355.2
- Min: 0.0
- Avg: 151.4
- Std Dev (σ): 114.2

Summary Statistics (2007-08 to 2009-04)

Temp, °C*

Rain, mm

Series Statistics

- Samples: 56,529
- Max: 2.8
- Min: 0.00
- Avg: 0.01
- Std Dev (σ): 0.06

Pressure mbar

Series Statistics

- Samples: 56,529
- Max: 863.450
- Min: 811.350
- Avg: 841.202
- Std Dev (σ): 8.837

Solar Radiation (W/m^2)

Series Statistics

- Samples: 56,529
- Max: 1,271.9
- Min: 0.6
- Avg: 92.4
- Std Dev (σ): 170.4

Wind Direction

Series Statistics

- Samples: 56,529
- Max: 355.2
- Min: 0.0
- Avg: 188.1
- Std Dev (σ): 101.1

Wind Speed (m/s)

Series Statistics

- Samples: 56,529
- Max: 20.78
- Min: 0.00
- Avg: 4.08
- Std Dev (σ): 3.31

Gust Speed (m/s)

Series Statistics

- Samples: 56,529
- Max: 26.90
- Min: 0.00
- Avg: 5.94

*logger errors have resulted in no temperature readings for 4 hours on 2008-05-25, for 10 hours on 2008-05-26, 12 hours on 2008-05-28, 7 hours on 2008-05-28, 4 hours on 2008-05-29, 3 hours on 2008-07-14, 4 hours on 2008-07-16, 1 hour on 2008-07-26, 2 hours on 2008-07-27, 14 hours from 2008-07-28 to 2008-08-29, and for 11 days from 2008-07-29 to 2008-08-09.

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APPENDIX I
ADAPTIVE MANAGEMENT PLAN FRAMEWORK

November 2009



ADAPTIVE MANAGEMENT PLAN FRAMEWORK

**SILVER HART PROPERTY
YUKON**

Prepared by:



ACCESS
CONSULTING GROUP

June 2009

TABLE OF CONTENTS

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1.0 ADAPTIVE MANAGEMENT PLAN OVERVIEW

This adaptive management plan framework provides an initial overview of the plans for the Silver Hart Project. As the project has yet to be fully constructed and operated it is difficult to provide complete details of physical structures, monitoring instrumentation and programs, and process and operational procedures. The intent of this framework is to provide an overview of the adaptive management plan for the operation and then develop a more comprehensive plan once the facility is constructed and operational procedures and monitoring program are in place.

1.1 ADAPTIVE MANAGEMENT PLAN OBJECTIVES

An adaptive management plan (AMP) is a management tool designed to guide responses to unforeseen or contingency events respecting for example, water quality and quantity and physical conditions of site workings and infrastructure. The adaptive management approach will provide for assessment of mitigation measures and their effectiveness, and guide the orderly implementation of responses. Since it is difficult to predict the specific environmental condition that may arise which requires a response from management, the AMP does not necessarily provide specific detailed descriptions of responses to a situation. The AMP provides a range of possible responses to use as a guide to respond to specific environmental conditions encountered. Management will use the information provided in the AMP and adapt the appropriate response from this guide, which is the sole purpose of an AMP.

The AMP framework encompassing active Company management includes:

- routine inspection and environmental monitoring, maintenance and reclamation;
- routine assessment of monitoring and performance data;
- performance thresholds for implementation of appropriate levels of responses for planned contingency measures;
- follow up monitoring and adaptive responses modifications; and
- reporting of monitoring results and actions.

Results of monitoring programs will be assessed on an ongoing basis to determine if any negative trends in water quality, quantity or other parameters are occurring. Physical monitoring of structures and process facilities will also be routinely undertaken, conditions documented and responses implemented if required. If results of monitoring indicate that there are no negative environmental impacts, then the frequency and length of monitoring and maintenance would continue as usual. Adaptive management will be implemented to respond to negative trends observed through the monitoring programs.

1.2 AMP EVENTS SUMMARY

A number of “events” have been identified which represent potential environmental conditions that would require a management response, if they were to occur: These conditions and subsequent events are generalized to provide a framework for the AMP responses and actions and apply to the entire project including mining operations, processing facilities, and site access and infrastructure.

1. Change in Water Quality or Quantity

- a. Significant Change in Water Quality
 - i. Licenced Effluent Discharges: tailings pond and waste rock storage area sediment ponds;
 - ii. Receiving water (McCrory Creek);
 - iii. Process/Mine Waters: mill effluent, water treatment plant, open pit inflow/sump;
 - iv. Groundwater/seeps.
- b. Significant Increase or Decrease in Water Quantity
 - i. Licenced Effluent Discharges: tailings pond and waste rock storage area settling ponds;
 - ii. Receiving water (McCrory Creek);
 - iii. Process/Mine Waters: mill effluent, water treatment plant, open pit inflow/sump;
 - iv. Groundwater/seeps.

2. Physical Instabilities

- a. Structure Deformation/Failure (ie. Tailings dam, waste rock storage area, open pit, settling ponds, diversion ditches, roads);
- b. Area of Significant Subsidence Down Gradient of a Structure;
- c. Rock Fall or Landslide Observed and Effects Road Right-of-Way or Intrudes into a Stream.

3. Tailings Storage Area Effectiveness Compromised

- a. Seepage Observed Near Tailings Storage Area;
- b. Tailings Storage Area Approaching Capacity.

4. Site Security Compromised

- a. Gate, Fence or Sign Damaged.

Table 1 provides a summary of the approach to AMP events. This table describes a narrative trigger, indicators and response thresholds, monitoring locations and parameters.

1.3 AMP APPROACH

For each AMP event a methodical approach is provided:

1. Description of the event and possible environmental consequences - Addresses issues or information that trigger the AMP;
2. Location of possible event occurrence – Identifies specific working site locations if applicable to event;
3. Monitoring requirements – Identifies the parameters to be monitored, frequency and means for monitoring each parameter;
4. Specific indicators and thresholds - Defines the conditions when management actions should be taken. There may be a series of indicators and staged thresholds for an individual event; and
5. Approach to responses –Description of the approach to responses including a simplified flow chart to guide the implementation process if any specific thresholds have been crossed.

Table 1 Overall AMP Summary

EVENT	NARRATIVE TRIGGER	INDICATORS	THRESHOLDS	MONITORING LOCATIONS	MONITORING PARAMETERS	ACTION/ RESPONSE
1. CHANGE IN WATER QUALITY OR QUANTITY						
i) Significant change in effluent water quality	Change in effluent pH noted or effluent quality trending towards possible exceedance of standards or exceeds licenced standards.	pH, total zinc, conductivity	Treated effluent: pH <6.5 or >9.5; OR Total zinc > 0.40 mg/L and pH <6.5 for two consecutive days; OR conductivity >2,000 µS/cm; OR Effluent quality standards exceeded.	Effluent Discharge Points: tailings pond and waste rock storage area sediment ponds	Routine in-situ, on-site total Zinc, Lead, external multi-element ICP, hardness, pH, conductivity, TSS, LT50	Resampling to confirm results; Water recycling to reduce or eliminate release; Water Balance review and control measure implementation; Water treatment & release; Water treatment performance review.
ii) Significant change in receiving water quality – McCrory Creek	Water quality exceeds Site Specific Water Quality Objectives	total zinc, conductivity	To be determined based on discussions with the regulatory authorities	McCrory Creek CMC-M1 monitoring station	Routine in-situ, external multi-element ICP, hardness, pH, conductivity, TSS,	Resampling to confirm results; Water recycling to reduce or eliminate release; Water Balance review and control measure implementation; Water treatment performance review.
iii) Significant change in process/ mine water quality	Increase in pH, conductivity that indicate changes in milling process solutions which could affect operational performance	pH, conductivity	To be determined based on discussions with the regulatory authorities	Mill effluent point of discharge to the tailings pond; water treatment plant; Open pit inflow/sump.	Routine in-situ, on-site total zinc, lead, external multi-element ICP, hardness, pH, conductivity,	Resampling to confirm results; Water recycling to reduce or eliminate release; Water Balance review and control measure implementation; Water treatment & release; Water treatment performance review.
iv) Significant change in groundwater quality	Groundwater quality trending towards possible exceedance of Contaminated Sites Regulations for industrial groundwater	zinc	To be determined based on existing groundwater conditions	Groundwater monitoring locations to be implemented down gradient of project facilities; existing seeps down gradient from project facilities.	Routine in-situ, external multi-element ICP, hardness, pH, conductivity, TSS,	Resampling to confirm results; Water Balance review and control measure implementation; Water recycling to reduce or eliminate release to groundwater.
v) Significant change in effluent water quantity proportional to McCrory Creek discharge	Observed or measured discharge displays a sustained and statistically significant increase or decrease compared to McCrory Creek	discharge	Increase/decrease in effluent discharge of 2X or more when compared to McCrory Creek	Water Treatment Facility and Effluent Discharge Points: Tailings pond and waste rock storage area settling ponds; and McCrory Creek	discharge	Resampling to confirm flow results; Water Balance review and control measure implementation; Water recycling to reduce or eliminate release.
vi) Significant change in receiving water quantity – McCrory Creek	Lack of flow in McCrory Creek compromises ability to discharge effluent waters from site	discharge	Likely exceedance of McCrory Creek SSWQO (Event 1 a – ii)	McCrory Creek CMC-M1 monitoring station	discharge	Resampling to confirm flow results; Water Balance review and control measure implementation; Water recycling to reduce or eliminate release; Water treatment performance review.
vii) Significant change in process/ mine water quantity	Observed or measured discharge displays a sustained and statistically significant increase or decrease	quantity	Flows from the point of discharge from the mill exceed the average projected total by 20% (over 3 months)	Mill process water point of discharge	quantity	Resampling and rechecking previous results to confirm results; Water Balance review and control measure implementation; Water recycling to eliminate tailings pond level increases beyond planned levels.

EVENT	NARRATIVE TRIGGER	INDICATORS	THRESHOLDS	MONITORING LOCATIONS	MONITORING PARAMETERS	ACTION/ RESPONSE
viii) Significant change in monitoring well groundwater level	Measured groundwater level displays a sustained and statistically significant increase or decrease	groundwater level	Groundwater elevation changes by more that 25% when compared to historical average	Groundwater monitoring locations to be implemented down gradient of project facilities	groundwater level	Resampling to confirm results; Water Balance review and control measure implementation; Water recycling to reduce groundwater requirements; Assess alternative water sources.
2. PHYSICAL INSTABILITIES						
a. Structure deformation/ failure	Deformation or failure of an engineered structure is observed	visual observation; piezometers; wire line extensometers; inclinometers; survey monuments; flow meters; geotechnical inspection.	WRSA – detailed set of guidelines to be developed based on guidelines in the Operations and Monitoring Manual developed by BC Mine Waste Rock Pile Research Committee, May 1991; Tailings storage area, others to be determined based on detailed engineering designs and instrumentation	Tailings Storage Area; Waste Rock Storage Area; Open Pit; Ponds; Ditches; Roads	Visual observation, solution levels, pore pressure, leakage, bench movement	Contingency plans to be developed Implement engineer recommendations
b. Area of significant surface subsidence has occurred down gradient of a structure	An observed subsidence down gradient of a structure has resulted in slope failure	Visible slope failure or ground subsidence	Area of subsidence presents a safety hazard or effects down gradient environment	Down gradient of structures (mill pad area, tailings storage area, waste rock storage area, open pit, ponds, ditches, roads)	same as indicators	Implement erosion control and stability measures (Terrestrial Performance Standards for terrain stability and erosion control)
c. Rock fall or landslide is observed that effects road right-of-way or intrudes into stream	An observed rock fall or landslide effects a road right-of-way, infrastructure or intrudes into stream	Mine source material movement	Source material effects road or stream	Site-wide	same as indicators	Implement erosion control and stability measures (Terrestrial Performance Standards for terrain stability and erosion control)
3. TAILINGS STORAGE AREA EFFECTIVENESS COMPROMISED						
a. Seepage observed near tailings storage areas	Routine inspection of tailings storage area shows seepage	Flow rate	Flow rate to be determined by engineering study	Tailings storage dam	Same as indicator	Structural assessment; Capacity review & potential expansion or relocation of tailings storage area.
b. Tailings storage area approaching capacity	Tailings storage area approaching minimum freeboard of 1.0 meter	Visual observation of freeboard	Freeboard is at 1.5 meter below decant point	Tailings sludge storage area	Same as indicator	Capacity review & potential expansion of tailings storage area or construction of new tailings storage area.
4. SITE SECURITY COMPROMISED						
a. Security gate, fence, sign damaged	Public health and wildlife safety measure damaged or removed	Sign, fence, gates, locks	Security feature damaged, removed, or compromised	Site-wide	same as indicators	Fix or replace damaged gate/fence/sign

2.0 ADAPTIVE MANAGEMENT PLAN

The AMP framework developed above will be used to prepare a final AMP that incorporates all engineering designs for each project component. Specific facility and monitoring and instrumentation programs will be incorporated into the AMP. The final AMP responses and actions plans will be further developed and presented. It is expected that the AMP will be completed and submitted to regulatory authorities' within 1 year of facility operations.

CMC Metals
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APPENDIX J
MATERIAL SAFETY DATA SHEETS

November 2009



MATERIAL SAFETY DATA

MSDS No: 00301
Date: 06/29/2000
Supersedes: 07/01/1997

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **AERO⁺ 407 Promoter, Aqueous**

SYNONYMS: None

CHEMICAL FAMILY: Formulated Dithiophosphate

MOLECULAR FORMULA: Mixture

MOLECULAR WGT: Mixture

USE: Mining Chemicals

MANUFACTURED BY: CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA,
WEST PATERSON, NEW JERSEY 07424, USA - 973/357-3100

SUPPLIED BY: CYTEC CANADA INC., GARNER ROAD, P.O. BOX 240,
NIAGARA FALLS, ONTARIO, CANADA L2E 6T4 1-905/356-9000

EMERGENCY PHONE: In CANADA: 905/356-8310 In USA: 1-800/424-9300 or 1-703/527-3887.

⁺Trademark or registered Trademark

2. COMPOSITION/INFORMATION ON INGREDIENTS

WHMIS REGULATED COMPONENTS

COMPONENT	CAS. NO.	%(w/w)	TWA/CEILING	REFERENCE
Sodium diisobutyl-dithiophosphate	053378-51-1	6.93-11.55	not established	
Sodium mercapto-benzothiazole	002492-26-4	23.45	not established	
Sodium hydroxide	001310-73-2	1.0	2 mg/m3 2 mg/m3 ceiling	OSHA ACGIH

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR: Yellow-green, clear, non-viscous liquid; slight sulfur odor

STATEMENTS OF HAZARD:

DANGER! CAUSES BURNS OF EYES AND SKIN

POTENTIAL HEALTH EFFECTS

EFFECTS OF EXPOSURE:

The estimated acute oral (rat) and acute dermal (rabbit) LD50 values are 7.8 g/kg and >5.0 g/kg, respectively. The calculated four hour acute inhalation LC50 (rat) is >10,000 ppm.

Direct contact with this material may cause severe eye and skin irritation.

Contact with acid may cause liberation of hydrogen sulfide. Hydrogen sulfide has a strong rotten-egg odor, however, some people are unable to smell the gas and exposure will deaden the sense of smell.

Therefore, odor is an unreliable indicator of exposure. Overexposure to hydrogen sulfide gas may cause severe eye or respiratory tract irritation, rapid development of coma and respiratory failure. Low levels of hydrogen sulfide may cause headache, dizziness, staggering gait, neurological damage and gastritis.

4. FIRST AID MEASURES

Material is not expected to be harmful by ingestion. No specific first aid measures are required.

In case of skin contact, remove contaminated clothing without delay. Wear impervious gloves. Cleanse skin thoroughly with soap and water. Do not omit cleaning hair or under fingernails if contaminated. Do not reuse clothing without laundering. Do not reuse contaminated leatherware.

In case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention without delay.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: >200 F; 93 C

METHOD: Setaflash Closed Cup

FLAMMABLE LIMITS

(% BY VOL): Not available

AUTOIGNITION TEMP: Not available

DECOMPOSITION TEMP: Not available

MECHANICAL/STATIC SENSITIVITY: Mixing with acids or aqueous solutions containing acids could result in release of toxic and explosive hydrogen sulfide gas. USE ONLY AS DIRECTED. See product bulletin for detailed use instructions.

EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive-pressure breathing apparatus and full firefighting protective clothing. See Section 8 (Exposure Controls/Personal Protection) for special protective clothing. Sulfur dioxide or oxides of phosphorus may be formed under fire conditions. Do not flush to sewer which may contain acid. This could result in generation of toxic and explosive hydrogen sulfide gas.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Where exposure level is not known, wear NIOSH approved, positive pressure, self-contained respirator. Where exposure level is known, wear NIOSH approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Section 8 (Exposure Controls Personal Protection), wear rain suit. Cover spills with some inert absorbant material; sweep up and place in a waste disposal container. Flush area with water.

7. HANDLING AND STORAGE

Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Mixing with acids or aqueous solutions containing acids could result in release of toxic and explosive hydrogen sulfide gas. USE ONLY AS DIRECTED. See product bulletin for detailed use instructions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Utilize a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands with soap and water. Prevent eye and skin contact. For operations where eye or skin contact can occur wear the special protective equipment specified below. Prevent contamination of skin or clothing when removing protective equipment. Provide eyewash fountain and safety shower in close proximity to points of potential exposure. For operations where inhalation exposure can occur, a NIOSH approved respirator recommended by an industrial hygienist may be necessary. A full facepiece respirator also provides eye and face protection.

Special protective equipment - To prevent skin contact wear skin protection, such as impervious gloves, apron, workpants, long sleeve workshirt, or disposable coveralls. To prevent eye contact wear eye protection such as chemical splash proof goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Yellow-green, clear, non-viscous liquid; slight sulfur odor

BOILING POINT: 217 F; 103 C; Not applicable

MELTING POINT: Not available

VAPOR PRESSURE: Not available

SPECIFIC GRAVITY: 1.165 @ 25 C

VAPOR DENSITY: Not available

% VOLATILE (BY WT): ~64; (water)

pH: >12; (minimum)

SATURATION IN AIR (% BY VOL): Not available

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Complete

VOLATILE ORGANIC CONTENT: Not available

ODOR THRESHOLD: See section 2 for permissible exposure limits.

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong acids and/or oxidizing agents.

HAZARDOUS DECOMPOSITION/ COMBUSTION PRODUCTS: carbon monoxide; carbon dioxide; oxides of sulfur (includes sulfur di and tri oxides); oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the WHMIS regulated components of this product is as follows:

Sodium diisobutyldithiophosphate has estimated acute oral (rat) and dermal (rabbit) LD50 values of greater than 5000 mg/kg and 2000 mg/kg, respectively. Direct contact with sodium diisobutyldithiophosphate can cause eye burns and skin corrosion.

Sodium mercaptobenzothiazole has acute oral (rat) and dermal (rabbit) LD50 values of 3.1 g/kg and >2.5 g/kg, respectively. Sodium mercaptobenzothiazole is a severe eye and skin irritant. The material can also cause allergic contact dermatitis.

Acute overexposure to sodium hydroxide mists or dusts causes severe respiratory irritation. A solution of sodium hydroxide can produce irreversible damage to eyes and skin.

12. ECOLOGICAL INFORMATION

Bluegill Sunfish (*Lepomis macrochirus*), 96 hr Static Renewal LC50 = 13.4

BOD

28 Day: < 2.1 %

OCTANOL/H₂O PARTITION COEF.: Not available

13. DISPOSAL CONSIDERATIONS

Cytec encourages the recycle, recovery and reuse of materials, where permitted, as an alternative to disposal as a waste. Cytec recommends that organic materials classified as hazardous waste according to the relevant local or national regulations be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	TRANSPORT CANADA	ICAO/IATA
SHIPPING NAME:	CAUSTIC ALKALI LIQUID, N.O.S.	CAUSTIC ALKALI LIQUID, N.O.S.
HAZARD CLASS:	8	8
SUBSIDIARY CLASS:	—	—
UN / ID NUMBER:	1719	1719
PACKING GROUP:	II	II
TRANSPORT LABEL REQUIRED:	Corrosive	Corrosive
PACKING INSTR:	Not Applicable	PASSENGER 809 CARGO 813
MAX NET QTY:	Not Applicable	PASSENGER 1L CARGO 30L
	D.O.T. SHIPPING INFORMATION	IMO SHIPPING INFORMATION
SHIPPING NAME:	CAUSTIC ALKALI LIQUID, N.O.S.	CAUSTIC ALKALI LIQUID, N.O.S.
HAZARD CLASS/ PACKING GROUP:	8 II	8 II
UN NUMBER:	UN1719	1719
IMDG PAGE:	Not Applicable	8136
D.O.T. HAZARDOUS SUBSTANCES:	(PRODUCT REPORTABLE QUANTITY) Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	Corrosive	Corrosive

ADDITIONAL TRANSPORT INFORMATION

TECHNICAL NAME (N.O.S.): (Contains dithiophosphate salt)

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this Material Safety Data Sheet contains all the information required by the Controlled Products Regulations.

WHMIS CLASSIFICATION: CLASS D DIVISION 2B TOXIC
CLASS E CORROSIVE

INVENTORY INFORMATION

CANADA DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.

16. OTHER INFORMATION

NFPA HAZARD RATING (National Fire Protection Association)

Fire	FIRE: Materials that must be preheated before ignition can occur.
1	HEALTH: Materials that, under emergency conditions, can cause serious or
Health 3	permanent injury.
0 Reactivity	REACTIVITY: Materials that in themselves are normally stable, even under fire
—	exposure conditions.
Special	

REASON FOR ISSUE:

Date Updated

Randy Deskin, Ph.D., DABT
Cytec Industries Inc.: 973/357-3100

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MSDS: 0000307
Print Date: 08/13/2007
Revision Date: 08/13/2007

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: AEROFLOAT® 31 Promoter
Product Description: Dicresyldithiophosphoric acid and cresylic acid
Intended/Recommended Use: Mining chemical

Supplied By: CYTEC CANADA INC., 9061 GARNER ROAD, P.O. BOX 240,
NIAGARA FALLS, ONTARIO, CANADA L2E 6T4 1-905/356-9000
EMERGENCY PHONE: In CANADA: 905/356-8310 In USA: 1-800/424-9300 or 1-703/527-3887.

Manufactured By: CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA,
WEST PATERSON, NEW JERSEY 07424, USA - 973/357-3100

® indicates trademark registered in the U.S. Outside the U.S., mark may be registered, pending or a trademark. Mark is or may be used under license.

2. COMPOSITION/INFORMATION ON INGREDIENTS

WHMIS REGULATED COMPONENTS

Component / CAS No.	%	(w/w)	OSHA (PEL):	ACGIH (TLV)	Carcinogen
Dicresyldithiophosphoric acid 27157-94-4	90		Not established	Not established	-
Cresylic acid (cresol) 1319-77-3	0 - 4		5 ppm (TWA) 22 mg/m ³ (TWA) (skin)	5 ppm (TWA) (skin)	-

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE AND ODOR:

Color: amber
Appearance: liquid
Odor: tar-like creosote

STATEMENTS OF HAZARD:

DANGER! CAUSES BURNS OF EYES AND SKIN
HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED

POTENTIAL HEALTH EFFECTS

EFFECTS OF EXPOSURE:

Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be 0.25 ml/kg and greater than 200 mg/kg, respectively. The 4-hour LC50 value (rat) is estimated to be greater than 2500 ppm.

Direct contact with this material may cause severe eye and skin irritation. Contact with acid may cause liberation of hydrogen sulfide. Hydrogen sulfide has a strong rotten-egg odor, however, some people are unable to smell the gas and exposure will deaden the sense of smell. Therefore, odor is an unreliable indicator of exposure. Repeated or prolonged dermal contact with this material may cause severe allergic skin reactions. Such allergic reactions may be incapacitating for an extended period of time. Overexposure to hydrogen sulfide gas may cause severe eye or respiratory tract irritation, rapid development of coma and respiratory failure. Low levels of hydrogen sulfide may cause headache, dizziness, staggering gait, neurological damage and gastritis. Refer to Section 11 for toxicology information on the regulated components of this product.

4. FIRST AID MEASURES

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

Skin Contact:

Take off immediately all contaminated clothing. Wear impermeable gloves. Wash immediately with plenty of water and soap. Pay particular attention to skin crevices, nail folds, etc. Do not reuse contaminated clothing without laundering. Do not reuse contaminated leatherware.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention immediately.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Apply artificial respiration if patient is not breathing. Obtain medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use carbon dioxide or dry chemical.

Protective Equipment:

Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See MSDS Section 8 (Exposure Controls/Personal Protection).

Special Hazards:

Contact with water liberates toxic, highly flammable gases. Use water to keep containers cool but avoid letting it contact this product. Do not flush to sewers. Sulfur oxides and/or toxic and flammable hydrogen sulfide may be formed under fire conditions.

Mechanical/Static Sensitivity Statements:

This product contains a dithioacid. Contact with water liberates toxic, highly flammable gases. Do not mix with water or aqueous solutions of other reagents since evolution of poisonous hydrogen sulfide could result. This precaution does not apply to addition to flotation pulps in amounts normally used in flotation. Store in a dry place out of sun and away from heat.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Where exposure level is known, wear approved respirator suitable for level of exposure. Where exposure level is not known, wear approved, positive pressure, self-contained respirator. In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

Methods For Cleaning Up:

Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

7. HANDLING AND STORAGE

HANDLING

Precautionary Measures: Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Special Handling Statements: This product contains a dithioacid. Contact with water liberates toxic, highly flammable gases. Do not mix with water or aqueous solutions of other reagents since evolution of poisonous hydrogen sulfide could result. This precaution does not apply to addition to flotation pulps in amounts normally used in flotation.

STORAGE

Store in a dry place out of sun and away from heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Utilize a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

Respiratory Protection:

Where exposures are below the established exposure limit, no respiratory protection is required. Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

Eye Protection:

Prevent eye and skin contact. Provide eye wash fountain and safety shower in close proximity to points of potential exposure. Wear eye/face protection such as chemical splash proof goggles or face shield.

Skin Protection:

Prevent contamination of skin or clothing when removing protective equipment. Wear impermeable gloves and suitable protective clothing.

Additional Advice:

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	amber
Appearance:	liquid
Odor:	tar-like creosote
Boiling Point:	Not available
Melting Point:	Not available
Vapor Pressure:	@ 20 °C Negligible
Specific Gravity/Density:	1.19
Vapor Density:	Not available
Percent Volatile (% by wt.):	<1
pH:	Not applicable
Saturation In Air (% By Vol.):	Not available
Evaporation Rate:	Negligible
Solubility In Water:	Slight
Volatile Organic Content:	Not available
Flash Point:	>93 °C 200 °F Setaflash Closed Cup
Flammable Limits (% By Vol):	Not available
Autoignition Temperature:	Not available
Decomposition Temperature:	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient (n-octanol/water):	Not available
Odor Threshold:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions To Avoid:	Avoid contact with water, acids, and excessive heat 79.4 C (175 F).
Polymerization:	Will not occur
Conditions To Avoid:	None known
Materials To Avoid:	Contact with water or water solutions liberates toxic and flammable hydrogen sulfide. Strong acids and/or oxidizing agents may react violently.
Hazardous Decomposition Products:	Carbon monoxide (CO) Carbon dioxide oxides of sulfur (includes sulfur di and tri oxides) hydrogen sulfide (H ₂ S)

11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION.
Toxicological information on the regulated components of this product is as follows:

The acute oral (rat) and acute dermal (rabbit) LD₅₀ values for cresol are 1454 mg/kg and 2000 mg/kg, respectively. Cresol is corrosive to all tissues; therefore, the liquid may cause severe eye or skin irritation. Prolonged or repeated dermal contact to low concentrations of cresol may produce a skin rash. Ingestion or skin absorption may cause headache, dizziness, blurred vision, ringing of ears, rapid breathing, mental confusion, muscular weakness, loss of consciousness and liver and kidney damage. Prolonged or repeated contact by any route may produce the following signs: vomiting, difficulty in swallowing, salivation, diarrhea, loss of appetite, headache, faintness, dizziness, mental disturbances, skin rash and liver and kidney damage.

The estimated acute oral (rat) and acute dermal (rabbit) LD₅₀ values for dicresyl dithiophosphoric acid are ~300 mg/kg and >200 mg/kg, respectively. Material is corrosive to skin and causes eye burns.

12. ECOLOGICAL INFORMATION

FISH TEST RESULTS

Test: Acute toxicity, freshwater (OECD 203)

Duration: 96 hr.

Species: Rainbow Trout (*Oncorhynchus mykiss*)

9.8 mg/l

LC₅₀

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

The Company encourages the recycle, recovery and reuse of materials, where permitted, as an alternative to disposal as a waste. The Company recommends that organic materials classified as hazardous waste according to the relevant local or national regulations be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

US DOT

Proper Shipping Name: Corrosive liquid, toxic, n.o.s.

Hazard Class: 8

Subsidiary Class: 6.1

Packing Group: II

UN/ID Number: UN2922

Transport Label Required: Corrosive
Toxic

Technical Name (N.O.S.): Contains cresylic acid/cresol

Hazardous Substances:

<u>Component / CAS No.</u>	<u>Reportable Quantity of Product (lbs)</u>
Cresylic acid (cresol)	2500

Comments: Hazardous Substances/Reportable Quantities - DOT requirements specific to Hazardous Substances only apply if the quantity in one package equals or exceeds the product reportable quantity.

TRANSPORT CANADA

Proper Shipping Name: Corrosive liquid, toxic, n.o.s.

Hazard Class: 8

Subsidiary Class: 6.1

Packing Group: II

UN Number: UN2922

Transport Label Required: Corrosive
Toxic

Technical Name (N.O.S.): Contains cresylic acid/cresol

ICAO / IATA

Proper Shipping Name: Corrosive liquid, toxic, n.o.s.

Hazard Class: 8

Subsidiary Class: 6.1

Packing Group: II

UN Number: UN2922

Transport Label Required: Corrosive
Toxic

Packing Instructions/Maximum Net Quantity Per Package:

Passenger Aircraft: 808; 1L

Cargo Aircraft: 812; 30L
Technical Name (N.O.S.): Contains cresylic acid/cresol

IMO

Proper Shipping Name: Corrosive liquid, toxic, n.o.s.
Hazard Class: 8
Subsidiary Class: 6.1
UN Number: UN2922
Packing Group: II
Transport Label Required: Corrosive
Toxic
Technical Name (N.O.S.): Contains cresylic acid/cresol

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled products Regulations and this Material Safety Data Sheet contains all the information required by the Controlled Products Regulations.

WHMIS CLASSIFICATION:

Class D1B Toxic
Class D2B Toxic
Class E Corrosive

INVENTORY INFORMATION

United States (USA): All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

European Union (EU): All components of this product are included on the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

16. OTHER INFORMATION**NFPA Hazard Rating (National Fire Protection Association)**

Health: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

Fire: 1 - Materials that must be preheated before ignition can occur.

Reactivity: 1 - Materials that in themselves are normally stable, but that can become unstable at elevated temperatures and pressures.

Reasons For Issue:

New Format

Prepared By: Randy Deskin, Ph.D., DABT +1-973-357-3100
08/13/2007

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation, and verification. Before using any product, read its label.

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY High Calcium Hydrated Lime
Ca(OH)₂, Calcium hydroxide, technical

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name and Address

Chemtrec Company
3724 Hulen Street
Fort Worth, Texas 76107

Emergency Telephone Number

Chemtrec 800-424-9300

Information Phone Number

817-732-8164

Date Prepared

7/1/02

Section II - Hazardous Ingredients/Identity Information

Hazardous Components	CAS	Common Name	OSHA PEL	ACGIH TLV	Other Limits	% (optional)
Calcium hydroxide	1305-62-0	Hydrated Lime	5 mg/m3	5 mg/m3	7340 mg/kg	>90%
Magnesium hydroxide	1309-42-8	Brucite	N.A.	N.A.		<5%
Magnesium oxide	1309-48-4	Periclase	10 mg/m3	10 mg/m3	6 mg/m3	<5%
Calcium carbonate	1317-65-3	Limestone	15 mg/m3	10 mg/m3	6450 mg/kg	<3%
Silicon dioxide	14808-60-7	Quartz	0.1 mg/m3	0.1 mg/m3	4 mg/m3	<2%

Section III - Physical/Chemical Characteristics

Boiling Point	2850 °C	Melting Point	dec. 580 °C	Specific Gravity	2.2 - 2.4 g/cc
Vapor Pressure (mm Hg)	N.A.	Vapor Density	N.A.	Evaporation Rate	N.A.
Solubility in Water	Slightly soluble in water. pH=12.4@25°C				
Appearance and Odor	White or gray powder, odorless				

Section IV - Fire and Explosion Hazard Data

Flash Point	LEL/UEL	Flammable Limits	Extinguishing Media
N.A.	N.A.	N.A.	Not Combustible -- Use extinguishing agent for surrounding fire

Special Firefighting Procedures/Unusual Fire and Explosion Hazards

Avoid skin contact or inhalation of dust.

Section V - Reactivity Data

Stability	Conditions to Avoid (stability - related)
Stable	Material is stable

Incompatibility (Materials to Avoid)

Acids: Reacts vigorously and produces heat. Maleic Anhydride: May react explosively. Nitro Organic Compounds: May react to form explosive salts. Phosphorous: May form flammable products when heated. Aluminum: May react in presence of water to form hydrogen gas.

Hazardous Polymerization/Hazardous Decomposition of Byproducts

Will not occur (none)

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation, Ingestion

Health Hazards (Acute and Chronic)

Avoid skin and eye contact as irritation will occur. Inhalation can cause coughing, sneezing, or breathing problems.

Carcinogenicity:	OSHA?	SiO ₂	NTP/IARC Monographs?	SiO ₂

Respirable crystalline silica from occupational sources is classified by IARC as a Group I Carcinogen.

California Proposition 65: Silica is on the Governor's Proposition 65 list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium) that are on the Governor's Proposition 65 list.

Section VI - Health Hazard Data (continued)

Signs and Symptoms of Exposure

Skin or eye irritation; coughing or breathing problems.

Medical Conditions Generally Aggravated by Exposure

Respiratory problems, asthma, dermatitis or skin or eye sensitivity.

Emergency and First Aid Procedure

Flush contaminated area with excess water. If eye contact, rinse eye with eye wash solution or excess water and seek medical attention immediately.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Protect skin and eyes from contact and avoid inhalation of dust. If material is dry pick up and keep away from acids or organic materials. Place in steel drums.

Waste Disposal Method

Carefully add water and flush to sewer. Consult local, state, or federal regulations.

Precautions to be Taken in Handling and Storage

Store in tightly closed containers and keep dry and away from acids or other incompatible substances.

Do not store or ship in aluminum containers.

Other Precautions

Avoid eye contact and breathing dust.

NFPA Rating: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

HMIS Rating: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

WHMIS Rating: D2A, E

Section VIII - Control Measures

Respiratory Protection (Specify Type)

Dust masks meeting the NIOSH N95 rating are sufficient for casual exposure. (42 CFR)

Ventilation	Local Exhaust Vent to dust collector	Special	Do not dispose of dust with combustible materials.
	Mechanical (General) Vent to meet TLV requirements	Other	

Protective Gloves

Dry cloth or leather gloves

Other Protective Clothing or Equipment

Full clothing to cover arms and legs, safety glasses or face shield.

Work/Hygienic Practices

Eye wash and shower station should be readily available.

Chemical Lime Company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must consult their own technical and legal advisors and/ or exercise their own judgment in determining its appropriateness for a particular purpose. Chemical Lime Company makes no representations or warranties, either express or implied, including without limitation and warranties of merchantability or fitness for a particular purpose with respect to the information set forth herein or the product(s) to which the information refers. Accordingly, Chemical Lime Company will not be responsible or liable for any claims, losses or damages resulting from the use of or reliance upon or failure to use this information.

*References: Sax, N.I. & R.J. Lewis Sr. (1989) "Dangerous Properties of Industrial Materials", New York: Van Nostrand Reinhold Co. Ltd.
Lewis, R.J. (1997) "Hazardous Chemicals Desk Reference", New York: Van Nostrand Reinhold Co. Ltd. KSA*



Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063

Manufacturer name and address:

Celanese Ltd.
1601 W. LBJ Freeway
P.O. Box 819005
Dallas, TX 75381-9005
United States
Phone: 972 443 4000

Transportation emergency phone numbers:

In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted

Product Use:	Intermediate for lube oil additives, especially zinc dialkyl dithiophosphates; frothing agent for ore flotation, especially copper.

2. Composition / Information on Ingredients

Component	CAS Number	Percent %	OSHA hazard category:
METHYL ISOBUTYL CARBINOL	108-11-2	99	Hazardous

3. Hazards Identification

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

Emergency Overview:

WARNING!

- Flammable liquid and vapor.
- May cause respiratory tract and eye irritation.
- May cause skin irritation.
- Prolonged or repeated contact may dry skin and cause irritation.
- Material creates a special hazard because it floats on water.

Product Description

Appearance: Clear, colorless mobile liquid.
Odor: Slightly irritating, alcohol odor.

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion.

Immediate effects:

Skin: May cause skin irritation. Prolonged or repeated contact may dry skin and cause irritation. May be harmful if absorbed through skin. Symptoms of exposure may include: Central nervous system depression with headache, stupor, uncoordinated or strange behavior or unconsciousness. Drying, cracking or inflammation of skin.

Eyes: Exposure to vapors and liquid Causes eye irritation. Symptoms of exposure may include: Eye irritation, burning sensation, pain, watering, and/or change of vision.

Inhalation: Causes respiratory tract irritation. Harmful if inhaled. Symptoms of exposure may include: Central nervous system depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness. Nasal discharge, hoarseness, coughing, chest pain and breathing difficulty.

Ingestion: May be harmful if swallowed. Symptoms of exposure may include: Nausea, vomiting, loss of appetite, gastrointestinal irritation and/or diarrhea. Central nervous system depression with nausea, headache and mental sluggishness.

Mutagenic: Does not show mutagenic potential in most in vitro tests.

Target organ effects:

- Overexposure (prolonged or repeated exposure) may cause:
 - Kidney damage
 - Central nervous system depression
 - Injury to the eyes
 - Irritation of the respiratory tract
 - Irritation of the digestive tract
 - Drying of the skin

Transportation emergency:	800 424 9300 703 527 3887	CHEMTREC, 24 hrs/day Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

Medical conditions which may be aggravated by exposure: Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:
Respiratory Tract
Skin
Eyes
Kidneys
Central nervous system
Digestive tract

For further information, see: Section 4 - First Aid Measures
Section 5 - Fire Fighting Measures
Section 6 - Accidental Release Measures
Section 8 - Exposure Controls/Personal Protection
Section 9 - Physical and Chemical Properties
Section 10 - Stability and Reactivity

4. First Aid Measures

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

NFPA: Health: 2 Flammability: 2 Reactivity: 0

Flammable properties

Flash point (test method): 42.4 C (108 F)

Flammable limits in air, % by volume:

Upper: 5.5 %

Lower: 1 %

Autoignition temperature: 360.3 C (680 F)

Transportation emergency:	800 424 9300 703 527 3887	CHEMTREC, 24 hrs/day Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

Products of combustion: Carbon Monoxide.

Extinguishing Media: Use CO₂ or dry chemical for small fires. Use aqueous film forming foam for large fires.

Fire Fighting Instructions: Water spray should be used to cool fire-exposed structures and vessels. Keep personnel removed from and upwind of fire. If potential for exposure to vapors or products of combustion exists, wear full fire fighting turnout gear and NIOSH approved self-contained breathing apparatus. Oxidizing chemicals may accelerate the burning rate in a fire situation.

Fire Fighting Environmental Concerns: Thoroughly decontaminate bunker gear and other fire-fighting equipment before re-use.

6. Accidental Release Measures

Spill or Leak Instructions Eliminate ignition sources. See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapors. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Material creates a special hazard because it floats on water. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling: Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location.

Storage: Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.
Do not store with incompatible materials. See Section 10. Stability and Reactivity.

8. Exposure Controls / Personal Protection

Engineering Controls: General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred.

Protective Equipment A safety shower and eyebath should be readily available.

Skin protection: Wear impervious clothing and gloves to prevent contact. Butyl rubber is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye/face protection: Wear chemical goggles when there is a reasonable chance of eye contact.

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

Respiratory protection:

Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. To estimate an occupational exposure level see Section 3, Section 8 and Section 11.

For concentrations > 1 and < 10 times the occupational exposure level: Use air-purifying respirator with full facepiece and organic vapor cartridge(s) or air-purifying full facepiece respirator with an organic vapor canister or a full facepiece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air.

For concentrations more than 10 times the occupational exposure level and less than the lower of either 100 times the occupational exposure level or the IDLH: Use Type C full facepiece supplied-air respirator operated in positive-pressure or continuous-flow mode.

For concentrations > 100 times the occupational exposure level or greater than the IDLH level or unknown concentrations (such as in emergencies): Use self-contained breathing apparatus with full facepiece in positive-pressure mode or Type C positive-pressure full facepiece supplied-air respirator with an auxiliary positive-pressure self-contained breathing apparatus escape system.

For escape: Use self-contained breathing apparatus with full facepiece or any respirator specifically approved for escape.

Exposure guidelines

Component	Percent %	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA TWA	OSHA STEL	OSHA CEILING	Celanese WEL *
METHYL ISOBUTYL CARBINOL 108-11-2	99	25 ppm	40 ppm	-	25 ppm	-	-	

Component	Mexico TWA	Mexico STEL
METHYL ISOBUTYL CARBINOL 108-11-2	25 ppm	40 ppm

Component	1990 NIOSH IDLH (Recognized by OSHA)	1994 NIOSH IDLH
METHYL ISOBUTYL CARBINOL 108-11-2	2000 PPM	400 ppm

Comments:

Celanese has adopted the ACGIH TLVs
* Workplace Exposure Limit

Transportation emergency:	800 424 9300 703 527 3887	CHEMTREC, 24 hrs/day Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

9. Physical and Chemical Properties

Appearance:	Clear, colorless mobile liquid.
Odor:	Slightly irritating, alcohol odor.
Vapor Pressure:	4.7 mm Hg at 20 deg C
Vapor Density (Air=1 @ 20 C):	3.53
Boiling Point (760 mmHgA):	132 C (269.6 F)
Freezing Point:	< -50 C (< -58 F)
Solubility in Water @ 20 C:	1.82 grams per 100 grams H2O
Specific Gravity:	0.808 at 20 deg C
Molecular Weight:	102.2
Evaporation Rate (n-Butyl acetate = 1):	0.26

10. Stability and Reactivity

Stability:	Stable.
Conditions to Avoid:	Avoid heat , flames, sparks, and other sources of ignition.
Incompatibility:	Keep away from sulfuric and other strong inorganic acids, aluminum or lead (including equipment made of these metals), and oxidizing agents such as peroxides, nitric acid, perchloric acid or chromium trioxide.
Hazardous Combustion or Decomposition Products:	Thermal decomposition products may include oxides of carbon.
Hazardous Polymerization:	Hazardous polymerization will not occur.

11. Toxicological Information

Component Toxicological Information

Component	METHYL ISOBUTYL CARBINOL

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

Acute Exposure: Excessive exposure leads to depression of the central nervous system which is generally reversible and is shown by headache, dizziness, drowsiness, loss of coordination and unconsciousness.

Oral LD50: 2.6g/kg (rats); Slightly toxic to animals. Nausea, vomiting, gastrointestinal irritation and diarrhea may occur.

Inhalation LC50: >3776 ppm (rats; vapor; 4hrs.); Slightly toxic to animals. Vapors are irritating to the respiratory tract.

Skin: Repeated or prolonged contact may cause drying of the skin dermatitis. Moderately irritating to rabbit skin. Slightly toxic (dermal LD50, rabbit:2.9g/kg).

Eyes: Liquid causes moderate to severe irritation of rabbit eyes. Vapors are irritating to the eyes.

Mutagenicity: Not mutagenic in bacterial, yeast and rat liver cell in vitro assays, including the Ames Test.

Carcinogenicity: No information.

Reproductive/Developmental Effects: No information.

Other: Methyl isobutyl carbinol has potentiated the liver toxicity of halogenated solvents (e.g., chloroform and carbon tetrachloride) in experimental animals at oral doses of 570 mg/kg or higher.

Repeated Exposure: Male and female rats exposed for 6hr/day, 5 days/wk for 6 wks to 211, 825 or 3698 mg/m³ showed no overt signs of toxicity, effects on blood parameters or compound-related effects based on gross and microscopic examination of tissues. Increased kidney weight was observed in the males at the high dose. Effects on urine parameters were noted at all dose levels except for the low dose males. There are several other studies of limited quality and with limited details. In a 90-day inhalation study, kidney effects were reported in rats at 0.425 mg/l, but not in monkeys or dogs. The effect in rats was reversible on cessation of exposure. In mice exposed 12 times for 4 hours to vapor saturated air (approximately 20 mg/l), an anesthetic effect was reported, but no mortality. In rabbits exposed dermally 5 times over a period of 15-21 days at 2.5 g/kg, no systemic effects were observed.

12. Ecological Information

Component Ecological Information

Transportation emergency:	800 424 9300 703 527 3887	CHEMTREC, 24 hrs/day Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003
Component	METHYL ISOBUTYL CARBINOL

Ecotoxicity: Methyl isobutyl carbinol exhibits low acute toxicity to aquatic species. The 96-hour LC50 for fish (*Pimephales promelas*) was greater than 92.4 ppm. There was no mortality at this level. The 24-hour LC50 value for fish (*Carassius auratus*) is 360 ppm. The 24-hour LC50 value for shrimp (*Artemia salina*) is 370 ppm. The 48-hour LC50 value for the clawed toad (*Xenopus laevis*) is 656 ppm. The 3-hour EC50 for inhibition of bacteria was greater than 100 ppm in the Activated Sludge Respiration Inhibition Test.

13. Disposal Considerations

Dispose of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

EPA Hazardous Waste Code(s): D001

14. Transport Information

US Department of Transportation:

Shipping name: METHYL ISOBUTYL CARBINOL
Hazard class: 3 (Flammable Liquid)
UN/NA Number: UN 2053
Packing Group: III
Emergency Response Guide: 129

ICAO/IATA:

Proper Shipping Name: METHYL ISOBUTYL CARBINOL
Hazard Classification: 3 (Flammable Liquid)
IATA UN Number: UN 2053
Packing group: III
Label: (Flammable Liquid)

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

IMDG:

Proper Shipping Name:	METHYL ISOBUTYL CARBINOL
Hazard Class:	3 (Flammable Liquid)
International Marine UN Number:	UN 2053
Packing Group:	III
Flash point (test method):	42.4 C (108 F)

Trade Information

Schedule B Code (export): 2905.15.0000

15. Regulatory Information**U.S. STATE REGULATIONS**

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):

METHYL ISOBUTYL CARBINOL 108-11-2 99

Pennsylvania	Listed
New Jersey	Listed
Illinois	Listed
Massachusetts	Listed

U.S. FEDERAL REGULATIONS

TSCA Inventory: We certify that all components are either on the TSCA inventory or qualify for an exemption.

Environmental Regulations:**SARA 311:**

Acute health:	Yes
Chronic health:	No
Fire:	Yes
Sudden release of pressure:	No
Reactive:	No

Transportation emergency:	800 424 9300	CHEMTREC, 24 hrs/day
	703 527 3887	Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day

Product name:	Methyl isobutyl carbinol
MSDS number:	63
Material number:	MSDS-063
Published date:	02/07/2003

INTERNATIONAL REGULATIONS

International Chemical Inventory

Listed on the chemical inventories of the following countries or qualifies for an exemption:

AUSTRALIA, CHINA, CANADA, EUROPE, KOREA, PHILIPPINES, JAPAN

16. Other Information

Prepared by: Product Stewardship Department
Celanese Ltd.

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Health: 2 Flammability: 2 Reactivity: 0

HMIS: Health: 2 Flammability: 2 Reactivity: 0

Revisions: The following sections have been revised since the last issue of this MSDS.

8. Exposure Controls / Personal Protection

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Celanese Ltd. makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Material safety data sheets are provided on the Internet by Celanese, Ltd. as a service to its customers. Possession of an Internet MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.

Transportation emergency:	800 424 9300 703 527 3887	CHEMTREC, 24 hrs/day Outside USA, collect calls accepted, 24 hrs/day
Product emergency:	800 835 5235	Celanese, 24 hrs/day



Material Safety Data Sheet

ORFOM ® SIPX (SODIUM ISOPROPYL XANTHATE)

September 30, 2001

MSDS #: 28990

Revision #0

CHEVRON PHILLIPS CHEMICAL COMPANY LP
10001 Six Pines Drive
The Woodlands, TX 77380

PHONE NUMBERS

HEALTH:

Chevron Phillips Emergency
Information Center 866.442.9628
(North America) and
1.832.813.4984 (International)

TRANSPORTATION:

North America: CHEMTREC 800.424.9300
or 703.527.3887
ASIA: 1.703.527.3887
EUROPE: BIG .32.14.584545 (phone)
or .32.14.583516 (telefax)
SOUTH AMERICA SOS-Cotec
Inside Brazil: 0800.111.767
Outside Brazil: 55.19.3467.1600
Technical Services: (832) 813-4862
For Additional MSDSs: (800) 852-5530

A. Product Identification

Synonyms: Not Established

Chemical Name: Sodium Isopropyl Xanthate

Chemical Family: Dithiocarbonate

Chemical Formula: C₄H₇OS₂Na

CAS Reg. No.: 140-93-2

Product No.: Not Established

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

Canadian Inventory Listing Status: DSL

All ingredients are listed in the Domestic Substances List (DSL).

Impurities are exempt in accordance with Section 3 of the Canadian Environmental Protection Act (CEPA).

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Sodium Isopropyl Xanthate	140-93-2	>84.0	NE	NE
Sodium Hydroxide	1310-73-2	< 3.0	2 mg/m3	2 mg/m3 (C)
Water	7732-18-5	Reminder	NE	NE

C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure below recommended level.

Respiratory Protection: Not generally required unless needed to prevent respiratory irritation.

Eye Protection: Use safety glasses with side shields.

Skin Protection: No special garments required. Avoid unnecessary skin contamination. Use impervious rubber gloves.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Do not get in eyes, on skin or on clothing. Do not breathe vapors, mist, fume or dust. Wear protective equipment and/or garments described above if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use only with adequate ventilation.

Store in a closed containers. Store in cool, well-ventilated area away from ignition sources. Protect from moisture and oxidants.

E. Reactivity Data

Stability: Stable
Conditions to Avoid: Acid; ignition sources.

Incompatibility (Materials to Avoid): Oxidants, organic or inorganic acids

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Sulfur oxides and carbon disulfides released on heating.

F. Health Hazard Data

Recommended Exposure Limits:

Control as Particulate Not Otherwise Classified (PNOC) or Regulated:

	OSHA PEL	ACGIH TLV*
Respirable Fraction	5 mg/m ³	3 mg/m ³
Total Dust	15 mg/m ³	10 mg/m ³

* The value is for inhalable (total) particulate matter containing no asbestos and

Acute Effects of Overexposure:

Eye: Irritation possible.

Skin: Mild irritation. Dermatitis may be possible with prolonged contact.

Inhalation: Dust may cause irritation to the nose, throat, and upper respiratory tract.

Ingestion: Low to moderate toxicity possible.

Subchronic and Chronic Effects of Overexposure:

Xanthates can decompose to release carbon disulfide (CAS # 75-15-0) which may cause dizziness, headache, fatigue, nervousness, loss of appetite, psychosis and nerve, heart, kidney or liver changes.

Other Health Effects:

No known applicable information.

Health Hazard Categories:

Animal Human

Animal Human

Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	___	___
Teratogen	___	___	Target Organ Toxin	<u>X</u>	<u>X</u>
Allergic Sensitizer	___	___	Specify - Liver, Kidney, Heart &		
Highly Toxic	___	___	Nerve Toxin		

Canadian WHIMS:

CLASS D: POISONOUS AND INFECTIOUS MATERIAL CATEGORIES

1. Materials Causing Immediate and Serious Toxic Effects

- A. Very Toxic _____
 B. Toxic _____

2. Materials Causing Other Toxic Effects

A. Very Toxic

1. Chronic Toxic Effects	_____
2. Teratogen/Embryo Toxin	_____
3. Carcinogen	_____
4. Reproductive Toxin	_____
5. Respiratory Tract Sensitizer	_____
6. Mutagen	_____

B. Toxic

1. Chronic Toxic Effects	<u> x </u>
2. Skin or Eye Irritant	_____
3. Skin Sensitizer	_____
4. Mutagen	_____

Specify: Liver - Toxin; Kidney - Toxin; Heart - Toxin; Nerve - Toxin.

First Aid and Emergency Procedures:

Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Skin: Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Give two glasses of water and induce vomiting, only if subject is conscious. Seek medical attention.

G. Physical Data

Appearance: Yellowish Powder or Pellets
Odor: Slight
Boiling Point: Not Applicable
Vapor Pressure: Not Applicable
Vapor Density (Air = 1): Not Applicable
Solubility in Water: Appreciable
Specific Gravity (H₂O = 1): Not Established
Percent Volatile by Volume: 14 maximum
Evaporation Rate (Butyl Acetate = 1): Not Applicable
Viscosity: Not Applicable

H. Fire and Explosion Data

Flash Point (Method Used): Not Applicable (solid or powder)
Flammable Limits (% by Volume in Air): LEL - Not Applicable
UEL - Not Applicable

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO₂)

Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment.

Fire and Explosion Hazards: Sulfur oxides and carbon disulfide released upon heating.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:

Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Follow normal clean-up procedures for solid spills. Control dust. Avoid breathing dust. Avoid contact with skin and eyes.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in permitted waste management facility.

J. DOT Transportation

Shipping Name: Self-heating, solid, organic, n.o.s., (Sodium isopropyl xanthate)
Hazard Class: 4.2
ID Number: UN 3088
Packing Group: II
Marking: Self-heating, solid, organic, n.o.s., (Sodium isopropyl xanthate), UN 3088
Label: Spontaneously combustible
Placard: Spontaneously combustible/3088
Hazardous Substance/RQ: Not Applicable
Shipping Description: Self-heating, solid, organic, n.o.s., (Sodium isopropyl xanthate), 4.2, UN 3088, PG II
Packaging References: 49 CFR 173.212, 173.241

K. RCRA Classification - Unadulterated Product as a Waste

Reactive (D003)

Prior to disposal, consult your environmental contact to determine if the TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Use NIOSH/MSHA approved respiratory protection, such as air-supplied mask, in confined spaces or other poorly ventilated areas.

M. Hazard Classification

 X This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

<u> </u> Combustible Liquid	<u> </u> Flammable Aerosol	<u> </u> Oxidizer
<u> </u> Compressed Gas	<u> </u> Explosive	<u> </u> Pyrophoric
<u> </u> Flammable Gas	<u> X </u> Health Hazard (Section F)	<u> </u> Unstable
<u> </u> Flammable Liquid	<u> </u> Organic Peroxide	<u> </u> Water Reactive
<u> </u> Flammable Solid		

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

Canadian WHIMS:

Class D:Poisonous and Infectious Material
Division 2. Materials Causing Other Toxic Effects

N. Additional Comments

SARA 313

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
(See Section B).

Sodium Hydroxide
Carbon Disulfide

NFPA 704 Hazard Codes - - - - - Signals

Health	: 1	Least	- 0
Flammability:	0	Slight	- 1
Reactivity	: 0	Moderate	- 2
Special Haz.:	-	High	- 3
		Extreme	- 4

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by EHS Product Stewardship Group, Chevron Phillips Chemical Company LP, 10001 Six Pines Drive, The Woodlands, TX 77380

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Material Safety Data Sheet

Sodium carbonate

ACC# 21080

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium carbonate**Catalog Numbers:** AC123670010, AC123670025, AC206800010, AC206800025, AC207765000, AC207810010, AC424280030, AC424285000, S71987, S71987-1, S71987-2, S78416, S78416-1, S78419, BP357-1, NC9644731, S261-10, S263-1, S263-10, S263-3, S263-50, S263-500, S263-50LC, S495-500**Synonyms:** Crystal Carbonate; Disodium Carbonate; Sal Soda; Soda Ash; Washing Soda**Company Identification:**Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410**For information, call:** 201-796-7100**Emergency Number:** 201-796-7100**For CHEMTREC assistance, call:** 800-424-9300**For International CHEMTREC assistance, call:** 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
497-19-8	Sodium carbonate anhydrous	100	207-838-8

Hazard Symbols: XI**Risk Phrases:** 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid. **Warning!** Harmful if inhaled. May cause eye and skin irritation with possible burns. May cause respiratory and digestive tract irritation.

Target Organs: Eyes, skin.

Potential Health Effects

Eye: May result in corneal injury. Contact with eyes may cause severe irritation, and possible eye burns.

Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion: May cause irritation of the digestive tract.

Inhalation: Harmful if inhaled. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

Chronic: Prolonged or repeated inhalation may cause nosebleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pain and bronchitis.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Use water fog, dry chemical, carbon dioxide or alcohol type foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Cover with material such as dry soda ash or calcium carbonate and place into a closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium carbonate anhydrous	none listed	none listed	none listed

OSHA Vacated PELs: Sodium carbonate anhydrous: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: white

Odor: odorless

pH: 11.6 (solution)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 400 deg C

Freezing / Melting Point: 851 deg C

Decomposition Temperature: 400 deg C

Solubility: Soluble in water

Specific Gravity / Density: 1.55

Molecular Formula: Na₂CO₃

Molecular Weight: 105.9778

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: Reacts explosively with red-hot aluminum metal.

Incompatible with ammonia + silver nitrate, 2,4-dinitrotoluene, 2,4,6-trinitrotoluene, sulfuric acid, sodium sulfide + water, lithium, phosphorus pentoxide, fluorine, and hydrogen peroxide. Hot concentrated solutions of sodium carbonate are mildly corrosive to steel.

Hazardous Decomposition Products: Carbon dioxide, toxic fumes of sodium oxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 497-19-8: VZ4050000

LD50/LC50:

Not available.

Carcinogenicity:

CAS# 497-19-8: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: No data available.

Section 12 - Ecological Information

Ecotoxicity: Fish: Bluegill/Sunfish: LC50 = 320 mg/L; 96 Hr.; Static Conditions Cas# 497-19-8

Environmental: No information reported.

Physical: No information found

Other: No information found

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID / ADR	IMO	Canada TDG
Shipping Name:	No information available.				No information available.
Hazard Class:					
UN Number:					
Packing Group:					

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 497-19-8 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 497-19-8: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 497-19-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European / International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

WGK (Water Danger / Protection)

CAS# 497-19-8: 1

Canada - DSL / NDSL

CAS# 497-19-8 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of D2B.

Canadian Ingredient Disclosure List

CAS# 497-19-8 is listed on the Canadian Ingredient Disclosure List.

Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 7/12/1999

Revision # 2 Date: 1/30/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.



MATERIAL SAFETY DATA SHEET

SODIUM HYDROSULPHIDE, SOLID

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Brenntag Canada Inc.
43 Jutland Road.
Toronto, Ontario
M8Z 2G6
(416) 259-8231

WHMIS Number: 00060706
Index: HCl0163/03B
Effective Date: 2003 April 08
Date of Revision: 2003 April 08
Website: <http://www.brenntag.ca>

EMERGENCY TELEPHONE NUMBERS

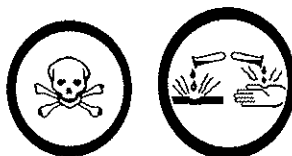
Toronto, ON (416) 226-6117
Edmonton, AB (780) 424-1754

Montreal, QC (514) 861-1211
Calgary, AB (403) 263-8660

Winnipeg, MB (204) 943-8827
Vancouver, BC (604) 685-5036

PRODUCT IDENTIFICATION

Product Name: Sodium Hydrosulphide, Solid.
Chemical Name: Sodium Hydrosulphide.
Synonyms: Sodium Bisulphide; Sodium Sulphydrate; Sodium Hydrogen Sulphide; Sodium Mercaptan; Sodium Mercaptide.
Chemical Family: Sulfides.
Molecular Formula: NaSH.
Product Use: Metal precipitant. Flotation agent. Pulp and paper industry. Chemical intermediate.
CAS #: 16721-80-5.
WHMIS Classification / Symbol: D-1B: Toxic (acute effects), E: Corrosive.



READ THE ENTIRE MSDS FOR THE COMPLETE HAZARD EVALUATION OF THIS PRODUCT.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Toxic/Poisonous! Corrosive! Toxic effects are principally related to its corrosive properties. Toxic effects may be delayed. May be fatal if inhaled or swallowed. Causes severe skin and eye burns. Dust is extremely irritating to respiratory tract. High vapour concentrations may cause drowsiness. Can decompose at high temperatures forming toxic gases. Sealed containers may rupture from the pressure of water vapours released from crystals by intense heat.

Contact with all acids, moisture in the air or excessive heat will liberate poisonous, flammable Hydrogen Sulphide gas. If Hydrogen Sulphide gas is liberated, the fire and explosion hazard should be handled in the same manner as the Hydrogen Sulphide. (3,4) Hydrogen sulphide will evolve when heated.

POTENTIAL HEALTH EFFECTS

- Inhalation: Toxic/Poisonous! Corrosive! Product may cause severe irritation of the nose, throat and respiratory tract. Repeated and/or prolonged exposures may cause productive cough, running nose, bronchopneumonia, pulmonary oedema (fluid build-up in lungs), and

reduction of pulmonary function. May cause sore throat, shortness of breath and death. Irritation of mucous membranes and respiratory tract is possible following exposure to the decomposition product. (3)

- . Skin Contact: Corrosive! Avoid handling when the skin is moist, wet or abraded. Brief contact with the dust causes irritation. Greater exposure causes severe burns. In the presence of moisture (perspiration, humidity, tears), the dust dissolves to form a corrosive solution which may cause burns. (3) May cause defatting, drying and cracking of the skin.
- . Skin Absorption: Toxic/Poisonous! Prolonged or wide spread skin contact may result in the absorption of potentially harmful amounts of material.
- . Eye Contact: Extremely corrosive! This product causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur.
- . Ingestion: Toxic/Poisonous! Corrosive! Ingestion is not a likely route of exposure. Gastric acidity will convert the material to hydrogen sulphide. This product causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

Other Health Effects: Corrosive effects on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. Strict adherence to first aid measures following any exposure is essential.

May cause visual disturbances, glauropsia, photophobia, central nervous system (CNS) depression, chemical pneumonitis, pulmonary oedema and death. Exposure to the vapour may cause minor transient oedema of the corneal epithelium. This condition, referred to as glauropsia, "blue haze", or "blue-gray haze" produces a blurring of vision against a general bluish haze and the appearance of halos around bright objects. The effect disappears spontaneously within a few hours of the end of an exposure, and leaves no permanent damage. Although not detrimental to the eye per se, glauropsia predisposes an affected individual to physical accidents and reduces the ability to undertake skilled tasks such as driving a motorized vehicle. Abnormal sensitivity to light is termed photophobia. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposures may lead to coma and possible death due to respiratory failure. Pulmonary oedema is the build-up of fluid in the lungs that might be fatal. Symptoms of pulmonary oedema, such as shortness of breath, may not appear until several hours after exposure and are aggravated by physical exertion. (4)

Contact with acid may cause liberation of hydrogen sulphide. Hydrogen sulphide is a toxic and irritant (gas) whose effects are exerted on the respiratory system, gastrointestinal tract, eyes and central nervous system. Acute effects on the respiratory system, in order of increasing severity, can be rhinitis (inflammation of the nasal passage) with anosmia (loss of the sense of smell), tracheobronchitis with pain, sputum production, cough, pulmonary oedema with dyspnea (shortness of breath), delayed bronchopneumonia, respiratory paralysis and terminal asphyxial convulsion. Gastrointestinal effects can be profuse salivation, nausea, vomiting or diarrhea. Nervous system effects may be giddiness, headache, vertigo, amnesia, confusion and unconsciousness. (3)

Eye irritation is the most common low exposure effect of hydrogen sulphide and is characterized by irritation of the conjunctiva with photophobia to severe conjunctivitis with keratitis. These symptoms may last several days. Eye effects may include itching and pain, marked inflammation and swelling, cloudy cornea, and the destruction of the epithelial layer with scaling resulting in blurred vision. A possible warning sign of eye exposure is the appearance of halos around light sources and increased sensitivity to light. (3)

The initial detection of hydrogen sulphide by odour may occur at less than one ppm. The odour becomes offensive at three to five ppm. Then olfactory fatigue may occur. The second warning sign is eye irritation, which occurs at 10 to 20 ppm. (3)

3. COMPOSITION, INFORMATION ON INGREDIENTS (Not Intended As Specifications)

Hazardous Ingredients	CAS No.	ACGIH TLV	%
Sodium Hydrosulphide	016721-80-5	Not Listed.	70 - 75

Decomposition product:		
Sulphur Dioxide	007446-09-5	2 ppm *A4
Hydrogen Sulphide	007783-06-4	10 ppm

A4 = Not classifiable as a human carcinogen. (ACGIH-A4)

4. FIRST AID MEASURES

FIRST AID PROCEDURES

General Guidelines: Prompt removal of the material and obtaining medical attention are essential for all contact. Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water. Continue the flushing during transportation to the emergency department. Corrosive effects may be delayed (up to 72 hours), and damage may occur without the sensation or onset of pain. Contact local poison control centre for further guidance.

- . Inhalation: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Oxygen administration may be beneficial in this situation but should only be administered by personnel trained in its use. Obtain medical attention IMMEDIATELY.
- . Skin Contact: Prompt removal of the material from the skin is essential. Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of soap and water for a minimum of 30 minutes or up to 60 minutes for critical body areas. Immerse the exposed part immediately in ice water to relieve pain and to prevent swelling and blistering. Place cold packs, ice or wet cloths on the burned area if immersion is not possible. Cover the exposed part with a clean, preferably sterile, lint-free dressing. Obtain medical attention IMMEDIATELY and monitor breathing and treat for shock for severe exposure. See "Note to Physicians" below.
- . Eye Contact: Immediately flush eyes with running water for a minimum of 30 minutes, preferably up to 60 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Do not transport victim until the recommended flushing period is completed unless flushing can be continued during transport.
- . Ingestion: Do not attempt to give anything by mouth to an unconscious person. IMMEDIATELY contact local Poison Control Centre. If victim is alert and not convulsing, rinse mouth out and give 1 to 2 glasses of milk. Water may be used if milk is not available but it is not as effective. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more milk or water. IMMEDIATELY transport victim to an emergency facility.

Note to Physicians: Immediate consultation with the local Poison Control Centre should be initiated. Severe and sometimes delayed (up to 72 hours) local and systemic reactions can occur.

Treat symptomatically. Medical conditions that may be aggravated by exposure to this product include neurological, cardiovascular and skin disorders, diseases of the skin, eyes or respiratory tract.

Due to the severely irritating or corrosive nature of the material, swallowing may lead to ulceration and inflammation of the upper alimentary tract with hemorrhage and fluid loss. Also, perforation of the esophagus or stomach may occur, leading to mediastinitis or peritonitis and the resultant complications. (3)

Hydrogen Sulphide: If consciousness is impaired, oxygen and amyl nitrite should be administered. A pearl should be crushed onto gauze and held to the victim's nose for 15-30 seconds every minute. A new pearl should be used every 3 to 5 minutes. The victim's blood pressure should be monitored regularly and amyl nitrite use stopped if the blood pressure falls below 80/60. The use of amyl nitrite should not delay getting medical attention or the transporting of the victim to the hospital. (3)

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammability Class (WHMIS): Not regulated.
Flash Point (TCC, Deg. Celsius): Non-combustible (does not burn).
Autoignition Temperature (Deg. Celsius): 260 (Hydrogen Sulphide). (4)
Flammability Limits in Air (%): LEL: 4.3 (Hydrogen Sulphide). (4) UEL: 46 (Hydrogen Sulphide). (4)

Hazardous Combustion Products: Thermal decomposition products are toxic and may include Sulphur Dioxide, Hydrogen Sulphide, Sodium Hydroxide, oxides of sulphur, sodium and irritating gases.

Hydrogen Sulphide concentrations above permissible levels can cause irritation. At concentrations above 300 ppm, respiratory paralysis causing unconsciousness and death, can occur. (3)

Unusual Fire or Explosion Hazards: Sealed containers may rupture from the pressure of water vapours released from crystals by intense heat. Spilled material may cause floors and contact surfaces to become slippery. Vapours may form explosive mixtures with air.

Hydrogen Sulphide (H₂S) is extremely toxic. Hydrogen Sulphide deadens the sense of smell. A means of detecting its presence should be available. Installation of a continuous monitoring hydrogen sulphide gas detection and alarm system is recommended, particularly in any area where generation of sulphide gas may occur. See "Other Health Effects" Section.

If Hydrogen Sulphide gas is liberated, the fire and explosion hazard should be handled in the same manner as the Hydrogen Sulphide. (4) If fire is extinguished and gas is still present, an explosive mixture could form. Use carbon dioxide or dry chemicals to extinguish the fire. (3)

Sensitivity to Mechanical Impact: Not expected to be sensitive to mechanical impact.

Rate of Burning: Not available.

Explosive Power: Not available.

Sensitivity to Static Discharge: If Hydrogen Sulphide gas has evolved, then Hydrogen Sulphide gas is expected to be sensitive to static discharge if vapours are present between the lower and upper explosive limits.

EXTINGUISHING MEDIA

Fire Extinguishing Media: Use media appropriate for surrounding fire and/or materials. Contact with all acids or excessive heat will liberate poisonous, flammable Hydrogen Sulphide gas. If fire is extinguished and gas is still present, an explosive mixture could form. Use carbon dioxide or dry chemicals to extinguish the fire. (3)

FIRE FIGHTING INSTRUCTIONS

Instructions to the Fire Fighters: Isolate materials that are not involved in the fire and protect personnel. Cool containers with flooding quantities of water until well after the fire is out.

Fire Fighting Protective Equipment: Use self-contained breathing apparatus and protective clothing. Protective clothing for skin and eye protection should be worn to protect against corrosive materials.

6. ACCIDENTAL RELEASE MEASURES

Information in this section is for responding to spills, leaks or releases in order to prevent or minimize the adverse effects on persons, property and the environment. There may be specific reporting requirements associated with spills, leaks or releases, which change from region to region.

Containment and Clean-Up Procedures: See Section 13, "Deactivating Chemicals". In all cases of leak or spill contact vendor at Emergency Number shown on the front page of this MSDS.

Wear respirator, protective clothing and gloves. Minimize air borne spreading of dust. Spilled material may cause floors and contact surfaces to become slippery. Collect product for recovery or disposal. For release to land, or storm water runoff, contain discharge by constructing dykes or applying inert absorbent; for release to water, utilize damming

and/or water diversion to minimize the spread of contamination. Ventilate enclosed spaces. Notify applicable government authority if release is reportable or could adversely affect the environment. Replace damaged containers immediately to avoid loss of material and contamination of surrounding atmosphere.

7. HANDLING AND STORAGE

HANDLING

Handling Practices: Use normal "good" industrial hygiene and housekeeping practices. Containers exposed to heat may be under internal pressure. These should be cooled and carefully vented before opening. A face shield and apron should be worn. Vent container frequently, and more often in warm weather, to relieve pressure. Enforce NO SMOKING rules in area of use.

Ventilation Requirements: See Section 8, "Engineering Controls".

Other Precautions: Use only with adequate ventilation and avoid breathing dusts (gas or vapours). Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing thoroughly before re-use. Do not store or transport with food or feed. Corrosive residue is most likely to be deposited at process vents or storage tanks, especially during filling operations. The use of compressed air to force corrosive materials from delivery trucks is of special concern. Scrubbing the exhaust of these vents is highly recommended. Jurisdictional regulations should be consulted to determine required practices.

STORAGE

Storage Temperature (Deg Celsius): Store below 29 Degrees Celsius.

Ventilation Requirements: Ventilation should be corrosion and explosion proof.

Storage Requirements: Limit quantity of material in storage. Restrict access to storage area. Post warning signs. Consider leak detection and alarm systems for hydrogen sulfide. Keep container closed when not in use. If containers are left open, part of the Sodium Hydrosulphide value will be converted to sodium thiosulphate and sodium carbonate. (3) Store in a clean, cool well ventilated area, away from organic chemicals, strong bases, metal powders, carbides, sulfides, and any readily oxidizable material. Protect from direct sunlight. Protect against physical damage. Storage area should be equipped with corrosion-resistant floors, sumps and should have controlled drainage to a recovery tank. Prolonged storage may result in lumping or caking. Avoid moisture contamination. Hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

Special Materials to be Used for Packaging or Containers: Materials of construction for storing the product include: Multi-layerbags or sacks. Containers should be lined with polyethylene. Equipment for storage, handling or transport should NOT be made from the following material, or, where applicable, its alloys: zinc, aluminum, copper, bronze, PVC, steel, Stainless Steel 304 or 440. Confirm suitability of any material before using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommendations listed in this section indicate the type of equipment, which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

ENGINEERING CONTROLS

Engineering Controls: Local exhaust ventilation required. Ventilation should be corrosion and explosion proof. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Ventilate low lying areas such as sumps or pits where dense dust may collect.

For personnel entry into confined spaces (i.e. bulk storage tanks) a proper procedure must be followed. It must include consideration of, among other things, ventilation, testing of tank atmosphere, provision and maintenance of SCBA, and emergency rescue. Use the "buddy" system. The second person should be in view and trained and equipped to execute a rescue.

(4)

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Eye Protection: Safety glasses with side shields are recommended as minimal eye protection. Use full face-shield and chemical safety goggles when there is potential for contact. Contact lenses should not be worn when working with this material.

Skin Protection: Gloves and protective clothing made from neoprene or PVC should be impervious under conditions of use. Prior to use, user should confirm impermeability. Discard contaminated gloves.

Respiratory Protection: No specific guidelines available. A NIOSH/MSHA-approved full facepiece air-purifying respirator equipped with dust, mist, fume cartridges for concentrations up to 20 ppm Sulphur Dioxide or 100 ppm Hydrogen Sulphide. When formation of Hydrogen Sulphide gas is possible, use a NIOSH approved full face airline and/or self contained breathing apparatus operated in a positive pressure demand mode. (3) An air-supplied respirator if concentrations are higher or unknown.

If while wearing a respiratory protection, you can smell, taste or otherwise detect anything unusual, or in the case of a full facepiece respirator you experience eye irritation, leave the area immediately. Check to make sure the respirator to face seal is still good. If it is, replace the filter, cartridge or canister. If the seal is no longer good, you may need a new respirator. (4)

Other Personal Protective Equipment: Wear an impermeable apron and boots. Locate safety shower and eyewash station close to chemical handling area. Take all precautions to avoid personal contact.

EXPOSURE GUIDELINES

	ACGIH TLV (STEL)	OSHA PEL (TWA)	(STEL)	NIOSH REL (TWA)	(STEL)
Sulphur					
Dioxide	5 ppm	5 ppm	----	2 ppm	5 ppm
Hydrogen Sulphide	15 ppm	10 ppm	15 ppm	----	10 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES (Not intended as Specifications)

Physical State: Solid.
Appearance and Odour: White to colourless crystals; yellow to red flakes or lumps. Hydrogen Sulphide (rotten egg) odour.
Odour Threshold (ppm): 0.13 ppm (Hydrogen Sulphide). (4) Poor warning properties.
Boiling Range (Deg Celsius): 164. (3)
Melting/Freezing Point (Deg Celsius): 52. (3)
Vapour Pressure (mm Hg at 20 Deg. Celsius): Not applicable.
Vapour Density (Air = 1.0): Not applicable.
Relative Density (g/cc): 1.79. (4)
Bulk Density: 640 Kg/M3.
Viscosity: Not applicable.
Evaporation Rate (Butyl Acetate = 1.0): Not applicable.
Water Solubility: Soluble in water. 48 % (By Weight). (3) Deliquescent.
Solubility: Soluble in alcohols and ethers. (4)
% Volatile by Volume: Negligible. (3)
pH: Strongly alkaline. (3,4)
Coefficient of Water/Oil Distribution: Not available.
Volatile Organic Compounds (VOC): Negligible.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY

Under Normal Conditions: Unstable. Reacts with air to form sodium thiosulphate and sodium carbonate or sodium hydroxide. Releases a small amount of hydrogen sulphide. (4)

Under Fire Conditions: Not normally a fire hazard. Aqueous solutions and moist solids give off hydrogen sulfide (H₂S) gas. Hydrogen sulphide will evolve when heated.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: High temperatures, sparks, open flames and all other sources of ignition. Minimize air borne spreading of dust. Sweep up immediately to eliminate slipping hazard. Keep tightly closed to protect quality.

Materials to Avoid: Strong oxidizers. Strong Acids. Contact with acids will liberate Hydrogen Sulphide. Lewis or mineral acids. Organic Anhydrides. Isocyanates. Aldehydes. Alcohols. Glycols. Phenols. Corrosive to aluminum, tin, zinc, copper and their alloys. Bronze. Steel. 440 and 304 Stainless Steel.

Decomposition or Combustion Products: Thermal decomposition products are toxic and may include Sulphur Dioxide, Hydrogen Sulphide, Sodium Hydroxide, oxides of sulphur, sodium and irritating gases.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Sodium Hydrosulphide LD50 (Oral, Rat) = 58.5 mg/Kg (3)
LD50 (Dermal, Rabbit) = 177.8 mg/Kg (3)

Carcinogenicity Data: The ingredient(s) of this product is (are) not classed as carcinogenic by ACGIH, IARC, OSHA or NTP.

Reproductive Data: No adverse reproductive effects are anticipated.

Mutagenicity Data: No adverse mutagenic effects are anticipated.

Teratogenicity Data: No adverse teratogenic effects are anticipated.

Respiratory / Skin Sensitization Data: None known.

Synergistic Materials: Hydrogen Sulphide: It has also been reported that alcohol in the blood stream accentuates the effects of hydrogen sulphide overexposure. Those recovering from acute overexposure who had consumed alcohol during the previous twenty four hour period became quite violent. (3)

Other Studies Relevant to Material: Hydrogen Sulphide: Pulmonary oedema or bronchial pneumonia may result at levels of 250 to 600 ppm as reported by F. A. Patty. (3)

Chronic: There were three 90-Day studies conducted for CIIT on hydrogen sulphide in 1983. The studies were conducted using Sprague Dawley rats, Fischer 344 rats, and B6C3F1 mice. All exposures were six hours per day, five days per week to levels of 10.1, 30.5, or 80 ppm. In the rat studies, there were no significant differences in food consumption, ophthalmology, neurological data, or clinical pathology. Gross and histopathological studies did not reveal any lesions attributable to the test article in both rat studies. A depressed weight gain was noted in the highest exposure group. In the mouse study, nasal inflammation was seen in the 80 ppm exposure group. This effect was attributed to the test article. (3)

Subacute exposure can result in irritation of the mucous membranes of the eyes and respiratory tract, gastrointestinal disturbances and nervous system disorders. (3)

When low levels of hydrogen sulphide are absorbed into the bloodstream, hydrogen sulfide is metabolized into less toxic products such as sulphate and thiosulphate. Oxidation occurs rapidly. Hydrogen sulphide has not been detected in the exhaled breath as reported by F. A. Patty. (3)

When the amount of hydrogen sulphide absorbed by the body exceeds that which can be readily metabolized, acute systemic poisoning results. Hyperpnea (an increased breathing rate) occurs shortly thereafter; unconsciousness and respiratory paralysis may follow immediately. Death then occurs from asphyxiation unless the exposed person is removed immediately to fresh air and breathing is restored before heart action has ceased. If brain damage due to oxygen deficiency has not occurred, then recovery is usually complete, although some cases have taken many weeks. These acute effects can occur without warning as a result of olfactory fatigue. It has also been reported that alcohol in the blood stream accentuates the effects of hydrogen sulphide overexposure. Those recovering from

acute overexposure who had consumed alcohol during the previous twenty four hour period became quite violent. (3)

Sodium Hydrosulphide had positive results for mutations in one short term test using bacteria (Ames Test) and one test using Drosophila. (3)

12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life at low concentrations.

Sodium Hydrosulphide:

48-hour LC50 (Water Flea)	=	1.4 mg/L.	(3)
96-hour LC50 (Bluegill Sunfish)	=	1.1 mg/L.	(3)
48-hour EC50 (Marine Algae)	=	49.12 mg/L.	(3)
Fish toxicity: 96-hour TLm	=	1.1 mg/L (Bluegill Sunfish).	(3)

Environmental Fate: Not available. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

13. DISPOSAL CONSIDERATIONS

Deactivating Chemicals: Neutralize with a ferric chloride solution, followed by addition of sodium carbonate. (4) Confirm pH using pH paper. Neutralization is expected to be exothermic. Vigorous effervescence results. Recover spilled material on adsorbents, such as sand or vermiculite, and place in covered containers for disposal. Flush spill area with water.

Waste Disposal Methods: This information applies to the material as manufactured. Reevaluation of the product may be required by the user at the time of disposal since the product uses, transformations, mixtures and processes may influence waste classification. Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage, or to sewer systems.

Safe Handling of Residues: See above, "Deactivating Chemicals". See "Waste Disposal Methods".

Disposal of Packaging: Empty containers retain product residue and can be dangerous. Do not expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Dispose of waste material at an approved landfill site in accordance with applicable local, provincial and federal regulations.

14. TRANSPORTATION INFORMATION

CANADIAN TDG ACT SHIPPING DESCRIPTION:

Sodium Hydrosulphide, Class 8, UN2949, Pk Gp II.
Label(s)/Placard(s): Corrosive. Exemptions: None known.

US DOT CLASSIFICATION (49CFR 172.101, 172.102):

Sodium Hydrosulfide, Class 8, UN2949, Pk Gp II.
Label(s)/Placard(s): Corrosive. Reportable Quantity (CERCLA-RQ): 5,000 lbs / 2,270 Kg.
Exemptions: None known.

15. REGULATORY INFORMATION

CANADA

CEPA - NSNR: All constituents of this product are included on the DSL.
CEPA - NPRI: Not included.
Controlled Products Regulations Classification (WHMIS): D-1B: Toxic (acute effects), E: Corrosive.

USA

Environmental Protection Act: All constituents of this product are included on the TSCA inventory.

OSHA Hazard Communication (29CFR 1910.1200) Classification: Toxic, Corrosive.

NFPA: 3 Health, 1 Fire, 1 Reactivity. (3)

INTERNATIONAL: Sodium Hydrosulphide is found on the following inventories: EINECS (European Inventory of Existing Commercial Chemical Substances), ACOIN (Australia) and MITI (Japan).

16. OTHER INFORMATION

ADDITIONAL INFORMATION AND SOURCES USED

1. RTECS-Registry of Toxic Effects of Chemical Substances, Canadian Centre for Occupational Health and Safety RTECS database.
 2. Clayton, G.D. and Clayton, F.E., Eds., Patty's Industrial Hygiene and Toxicology, 3rd ed., Vol. IIA,B,C, John Wiley and Sons, New York, 1981.
 3. Supplier's Material Safety Data Sheet(s).
 4. "CHEMINFO", through "CCINFODisc", Canadian Centre for Occupational Health and Safety, Hamilton, Ontario, Canada.
 5. Guide to Occupational Exposure Values, 2002, American Conference of Governmental Industrial Hygienists, Cincinnati, 2002.
 6. The British Columbia Drug and Poison Information Centre, Poison Managements Manual, Canadian Pharmaceutical Association, Ottawa, 1981.
 7. NFPA 325M Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids, 1994 Edition, Quincy, MA, 1994.
 8. Regulatory Affairs Group, Brenntag Canada Inc.
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CMC Metals
SILVER HART PROPERTY

YESAA Executive Committee Submission

APPENDIX K
SILVER HART SITE WATER BALANCE

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